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THE CHEMIST AND DRUGGIST

TELEPHONE NUMBER: BANK 852 (two lines).

Established in ENGLAND, 1859.]

Registered as a Newspaper.
Published Weekly at 42 CANNON STREET, LONDON, E.C.

TELEGRAPHIC ADDRESS: "CHEMICUS, CANNON, LONDON." [Charged as two words only.]

Established in [AUSTRALASIA, 1885.

No. 1,799. Vol. LXXXV. JULY 18, 1914.

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Solport Bros.

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Southall Bros. & Barclay, Ltd.
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Norwich Crepe Co. (1856), Ltd.
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Fentiman, A. J., & Co.
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Templar Malins, Ltd.
Wardale, F. C., & Co.

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Blackie, Robert
Calvert, F. C., & Co.
Christy, T., & Co.
Cook, E., & Co., Ltd.
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Gibbs, D. & W., Ltd.
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Jewsbury & Brown
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Richford, C. D

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Saccharin Corporation, Ltd.

SANTONIN
Merck, E.
Smith, B. A., & Co.

SAPONIN
Field, C. W.

SCIENTIFIC APPARATUS
Perken, Son & Co., Ltd.
Pillischer, J.
Reynolds & Branson, Ltd.

SEA SALT
Tidman & Son, Ltd

SEED-DRESSING
Hawker, Arthur E.
Tomlinson & Hayward, Ltd.

SEEDS
Potter & Clarke, Ltd.

SERUMS AND ANTITOXINS
Allen & Hanburys, Ltd.
Burroughs Wellcome & Co
Evans Sons Lescher & Webb, Ltd
Parke, Davis & Co.
Schimmel & Co.
Wilcox, Jozeau & Co.

SHAMPOO POWDERS
Nu-tro Co.
Standard Tablet & Pill Co., Ltd.

SHARES
McAdam & Tuckniss

SHEEP DIPS
Burt, Boulton & Haywood, Ltd.
Tomlinson & Hayward, Ltd.

SHOP FITTINGS
Ayrton-Graham, Ltd.
Evans Sons Lescher & Webb, Ltd
Grant, D.
Harris & Sheldon, Ltd.
Josephs, Philip, & Sons, Ltd.
Maw, S., Son & Sons
Mills, H.
Parnall & Sons
Rudduck & Co.
Sangers
Southall Bros. & Barclay, Ltd.

SHOULDER STRAPS
Wood, Vincent

SHOWCARDS
Bell Advertising Co., Ltd.

SILVERWARE TOILET GOODS
Scott, Adolph

SOAP-MAKING PLANT
Forshaw, E., & Son, Ltd.

SOAPS, TOILET, &c.
Allen & Hanburys, Ltd.
Armour & Co., Ltd.
Bell (John), Hills & Lucas, Ltd.
Bronnley, H., & Co., Ltd.
Calvert, F. C., & Co.
Chesebrough Manfg. Co.
Christy, Thos., & Co.
Cook, E., & Co., Ltd.
Erasmic Co., Ltd.
Euoryl, Ltd.
Evans Sons Lescher & Webb, Ltd
Field, J. C. & J., Ltd.
Fulford, C. E., Ltd.
Gibbs, D. & W., Ltd.
Harrison, G. W.
Hovenden, R., & Sons, Ltd.
Lescol Perfumery Co.
McClinton's, Ltd.
Pears, A. & F., Ltd.
Price's Patent Candle Co., Ltd.
Providol Company
Resinol Chemical Co.
Wright, Layman & Umney, Ltd.

SODIUM BICARBONATE
Brunner, Mond & Co., Ltd.
Howards & Sons, Ltd.
Mumford, G. S., & Sons

SOOTHERS
Newbery, F., & Sons, Ltd.
Schutze, F., & Co., Ltd.

SPECTACLES
Darton, F., & Co.
Maw, S., Son & Sons
Nitsche & Gunther Opt. Co., Ltd.

SPERMACETI
Price's Patent Candle Co., Ltd.

SPHYGMOMETERS
Hicks, James J.

SPICES
Goodall, Backhouse & Co.

SPIRIT OF WINE
Burrough, J., Ltd.
Calder, James, & Co., Ltd.
Preston's Liverpool Distillery Co., Ltd.

SPONGES
Internl. Sponge Importers, Ltd.

SPRAYS
Benton & Stone, Ltd.
Burge, Warren & Ridgley, Ltd.
Christy, Thos., & Co.
Hovenden, R., & Sons, Ltd.
Maw, S., Son & Sons
Parke, Davis & Co.
Sangers
Toogood, Wm., Ltd.

SPRINKLER CORKS
Betts & Co., Ltd.

SPRUCE BEER
Hobson, Joseph, & Son

STARCH
Corn Products Co., Ltd.
Mumford, G. S., & Sons

STILLS
Bennett, Sons & Shears, Ltd.
Forshaw, E., & Son, Ltd.
Stokes, F. J., Machine Co.

STOPPERS
Stipendum Stopper Co.

SURGICAL APPLIANCES AND DRESSINGS
Allen & Hanburys, Ltd.
Berliner, Arthur
Burgoyne, Burbidges & Co.
Burroughs Wellcome & Co.
Carnegie Bros.
Dalmas, A. de St., & Co.
Davis, John Morgan, & Sons
Galen Manfg. Co., Ltd.
Gimber, W., & Son
Haynes, G., & Co.
Liverpool Lint Co.
Macfarlan, J. F., & Co.
Mason Bros. & Chapman
Maw, S., Son & Sons
May, Roberts & Co., Ltd.
Quelch, H. C., & Co.
Reynolds & Branson, Ltd.
Robinson & Sons, Ltd.
Southall Bros. & Barclay, Ltd.
Van Horn & Sawtell
Vernon & Co., Ltd.
Warne, W., & Co., Ltd.
Wood, Vincent
Woolley, J., Sons & Co., Ltd.

SUSPENSORY BANDAGES
Bailey, W. H., & Son

SYPHONS
Barnett & Foster
Camwal, Ltd.
Idris & Co., Ltd.
Pure Aeration Supply, Ltd.
Sharman's Pat. Syphon Co., Ltd.

SYRINGES
Bush, H. W., & Co., Ltd.

SYRUPS, MEDICINAL
Fellows' Med. Mnfg. Co.
Sinalco Co.

TABLET MACHINERY
Allen & Hanburys, Ltd.
Bennett, Sons & Shears, Ltd.
Thompson & Capper, Ltd.
Wilkinson, S. W., & Co.

"TABLOID" PRODUCTS
Burroughs Wellcome & Co.

TAP JARS
Fulham Pottery & Cheavin Filter Co., Ltd.

ABLETS, COMPRESSED
Allen & Hanburys, Ltd.
Bishop, Alfred, Ltd.
Blyton, Astley & Co.
British Drug Houses, Ltd., The
Brook, Parker & Co., Ltd.
Burgoyne, Burbidges & Co.
Cartwright, W. B., Ltd.
Cox, A. H., & Co., Ltd.
Davies, Sons & Co.
Duncan, Flockhart & Co.
Evans Sons Lescher & Webb, Ltd
Guest, Thos., & Co.
Howards & Sons, Ltd.
Jackson, Ernest, & Co.
Johnson & Sons (Mfg. Chts.),
Lloyd, H., & Co., Ltd.
Parke, Davis & Co.
Standard Tablet & Pill Co.,Ltd.
Thompson & Capper, Ltd.
Wand Manfg. Co.
Wigglesworth & Co.

ARTARIC ACID
Boehringer, C. H., Sohn
British Drug Houses, Ltd., The

EA
Christy, Thos., & Co.

EATS
Ingram, J. G., & Son

IN BOX MAKERS
Goodall, Backhouse & Co.
Liverpool Tin Canister Co., Ltd.
Shirley Bros., Ltd.

INCTURES IN BOND
Macfarlan, J. F., & Co.
Ransom, W., & Son, Ltd.

OBACCO
Singleton & Cole, Ltd.

OILET ARTICLES
Adair, Mrs. E.
Allen & Hanbnrys, Ltd.
Ansora Perfumery Co.
Armour & Co., Ltd.
Ayrton, Sannders & Co., Ltd.
Beetham, M., & Son
Blackie, Robert
British Drug Honses, Ltd., The
Bronnley, H., & Co., Ltd.
Burroughs Wellcome & Co.
Chesebrongh Mnfg. Co.
Christy, T., & Co.
Cook, E., & Co., Ltd.
Cox, Arthur H., & Co., Ltd.
Daisy, Ltd.
Edwards' Harlene Co.
Erasmic Co., Ltd.
Eucryl, Ltd.
Fulford, C. E., Ltd.
Gibbs, D. & W., Ltd.
Harker, C. R., Stagg & Morgan.
Hovenden, R., & Sons, Ltd.
Kopp & Joseph
Lloyd, Aimée, & Co.
Lloyd, A. S. (Hovenden)
Lorimer-Marshall, Ltd.
Maw, S., Son & Sons
May, Roberts & Co., Ltd.
Newbery, F., & Sons, Ltd.
Nu-tro Co.
Odol Chemical Works
Osborne, Garrett & Co.
Papier Poudré, Ltd.
Parke, Davis & Co.
Pazery, Richard
Prichard & Constance, Ltd.
Providol Gesellschaft
Quelch, H. C., & Co.
Roberts & Co.
Sangers
Shirley Bros., Ltd.
Softo Manfg. Co.
Solport Bros.
Southall Bros. & Barclay, Ltd.
Standard Tablet & Pill Co.,Ltd.
Stedman, J. H.
Tokalon, Ltd.
Vinolia Co., Ltd.
Woolley, J., Sons & Co., Ltd.

TOILET PAPER
Ayrton, Saunders & Co., Ltd.
Burgoyne, Burbidges & Co.
Ford, Shapland & Co.
Townsend, J., & Sons

TOOTH PICKS
Odol Chemical Works

TRADE-MARKS AGENTS
Barker, R. W.
Ford Shapland & Co.
Raworth, John E.

TRUSSES
Bush, H. W., & Co., Ltd.
Davis, John Morgan, & Sons
Haywood, J. H., Ltd.
Maw, S., Son & Sons
Sangers
Schutze, F., & Co., Ltd.
Scientific Truss Co., Ltd.
Wood, Vincent
Woolley, J., Sons & Co., Ltd.

TURNED WOOD BOXES
Rogers & Co.

VACUUM FLASKS
Millard Bros., Ltd.
Thermos, Ltd.
Read & Campbell, Ltd.

VACUUM PANS
Bennett, Sons & Shears, Ltd.
Stokes, F. J., Machine Co.

VALUERS
Baker, P. C.
Berdoe & Fish
Brett & Co.
Evans, Gadd & Co., Ltd.
Orridge & Co.
Tomlinson, T., & Son

VASELINE
Chesebrough Mnfg. Co.

VERMIN-KILLERS
Christy, T., & Co.
Cupal, Ltd.
Danysz Virus, Ltd.
Evans Sons Lescher & Webb, Ltd
Farmer, F., & Co.
Harley, Thomas
Harrison, G. W.
Hawker, Arthur E.
London Hygienic Chemical Co.
Milner's Chemical Co.
Steiner, E., & Co.

VETERINARY INSTRUMENTS
Mason Bros. & Chapman
Maw, S., Son & Sons

VINEGAR
Grimble & Co.

VETERINARY REMEDIES
Chesebrough Mnfg. Co.
Christy, Thos., & Co.
Day & Sons (Crewe), Ltd.
Edwards, W., & Son
Harvey & Co. (Dublin), Ltd.
Senier, Alf., & Co.
Tomlinson & Hayward, Ltd.
Wyleys, Ltd.

WATER GLASS
Barclay & Sons, Ltd.
Tomlinson & Hayward, Ltd.

WATER STILL
Brown & Sons
Stokes, F. J., Machine Co.

WATERS, CONCENTRATED
Robinson, B., & Co., Ltd.

WAXES
Price's Pat. Candle Co., Ltd.

WEED KILLERS
Harrison, G. W.
Tomlinson & Hayward, Ltd.

WINDOW FITTINGS
Ayrton-Graham, Ltd.

WINDOW TICKETS
Merten, F., & Co.

WINES
Burrough, J., Ltd.

WINES, MEDICATED
Burrough, J., Ltd.
Burroughs Wellcome & Co.
Coleman & Co., Ltd.
Fletcher, Fletcher & Co., Ltd.
Idris & Co., Ltd.
Robinson, B., & Co., Ltd.

WINES (NON-ALCOHOLIC)
Welch Grape Juice Co., Ltd

WRAPPING MACHINERY
Forgrove Machinery Co., Ltd.

WRIST STRAPS
Solport Bros.

ZINC OXIDE
Hubbuck, T., & Son, Ltd.
Stevenson, H. E., & Co.

ZINC SULPHIDE SCREENS
Buchler & Co.

"Milk of Magnesia"

(REGISTERED TRADE MARK)

PHILLIPS'

Is the ORIGINAL and ONLY GENUINE.

In bottles, 1/- and 2/3.

"Phospho–Muriate of Quinine Co."

PHILLIPS'

In bottles, 4/6.

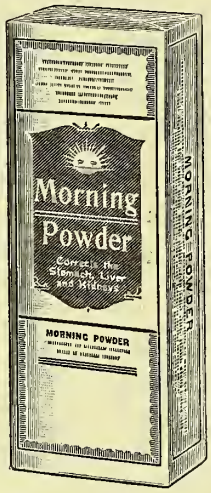
THE
Charles H. Phillips Chemical Co.

14 HENRIETTA STREET, COVENT GARDEN, W.C.

Tel. No.: 3239 Central.

Morning Powder

THE POPULAR EFFERVESCING REFRESHER



Keeps the bowels regular.
Prevents acidity.
Stimulates the digestive juices.
Cleanses the kidneys.
Touches the liver.

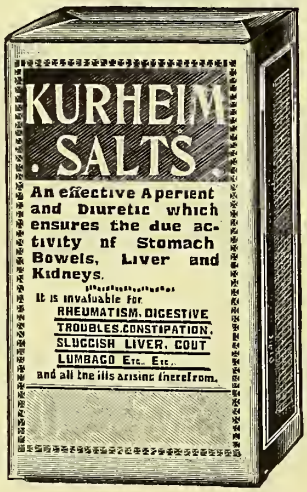
Conversational Showcards of original design Free of Charge with all orders.

Magnificent Window Poster to measure with 1 gross orders.

Retails 1/- per bottle ; Costs 6/3 per doz.

Kurheim Salts

A NON-EFFERVESCING COMPOUND MINERAL SALT



Laxative or Purgative, according to the dose.
Very suitable for those of a rheumatic tendency.

Persuasive Showcards Free with all orders.

Magnificent Window Posters with 1 gross.

Retails 1/3 per bottle ; Costs 6/6 per doz.

NOTICE.—We pay Carriage on Assorted Drug and Sundry Orders to the value of 50s. to any part of Great Britain and Ireland.

AYRTON, SAUNDERS & CO., LTD.

Wholesale Druggists **LIVERPOOL**

AN OFFER TO OPTICIANS

S. MAW, SON & SONS
7 to 12, ALDERSGATE ST.
LONDON, E.C.

Maw's Page.

No. 144. JULY 18, 1914.

EVERYTHING 'PAREX' IS PERFECT

NOTES & NEWS

"*SILIQUA*," the new Liquid Silver Plate Polish is a good line, and splendid for display purposes. 8/- dozen. Protected Retail Price, 1/- per bottle.

* * *

EIGHT shillings per dozen is also the price of our Cream Meters, each in box. They are marked with arrow to indicate the cream level.

* * *

THE adjoining 'Parex' list reveals the progress this series of lines is making. The name is a guarantee of quality and profits.

* * *

WHILE on the subject of 'Parex,' we will add here a reminder for the coming Autumn and Winter trade. Our Rubber Water Bottles bearing this name will again be foremost in popular favour. 'Parex' bottles are double-seamed and British made. May we reserve you a price list?

TEN 'PAREX' REG^D LINES

'PAREX' SAFETY RAZOR
With 6 blades, Silver plated, 7/- each. Gold plated, 8/3 each. Spare blades, 2/- doz.

'PAREX' THROAT & NOSE SPRAY
With Rubber Nasal Mount, 21/- doz. Without 18/6 doz.

'PAREX' BREAST RELIEVER
Per doz., 20/- Protected Retail Price, 2/6 each.

'PAREX' ENEMA SYRINGE
Per doz., 28/- British Made throughout.

'PAREX' ENEMA PUMP
Splendid line for Stock-breeding districts. 1 pint, 9/-; 2 pint, 12/-; 3 pint, 16/9.

'PAREX' TOOTH POWDER
Per doz., 7/9. Protected Retail price, 1/- per tin.

'PAREX' VIOLET TALCUM POWDER
Per doz., 6/6. Protected Retail Price, 10½d. per tin.

'PAREX' WHITE ROSE TALCUM POWDER
Per doz., 6/6. Protected Retail Price, 10½d. per tin.
Write for details of generous bonus offers concerning above three.

'PAREX' CREME DE LUXE
Per doz., 9/6. In 2 oz. blue pots in embossed cartons. Protected Retail Price, 1/3.

'PAREX' I.R. WATER BOTTLES
Autumn price list now in preparation.
Usual discount.

WATCH MAW'S PAGE FOR THE 'PAREX' PAGEANT

NIPPLE SHIELDS & BREAST GLASSES

Such permanent lines as Nipple Shields and Breast Glasses cannot fail to interest Pharmacists.

The patterns enumerated below represent the favourite stock of all modern Pharmacists. Goods that are so acknowledged as the best are surely worthy of serious attention.

Some "Maw Quality" Nipple Shields:

B2284/F. Hygienic, glass, with black I.R. Teats, per dozen, 3/9

B2285/F. India-rubber, black, per dozen 3/9 and 8/6.

B2286/F (as illustrated). Glass, with black I.R. teats, two qualities, per dozen, 1/9 and 2/6.

B2289/F Glass, improved shields, with black I.R. Teats, per dozen, 3/6.

B2286/F.

B2292/F. Glass, with black I.R. linings, teats and tubes, per dozen, 10/-

For full illustrated list see pp. 369-370 in our Catalogue.

Maw's Breast Glasses are made from special stout glass tubing, and carefully annealed, thus obviating the danger of breakage. We can recommend:

B727/B. Maw's arabesque, with plug-in ball, per dozen, 2-oz., 24/-. Reduced prices.

B728/B. Maw's green, superior quality, English make, per dozen, 2 oz., 20/-; 4 oz., 28/-. Reduced prices.

B729/B. Maw's black, "B" quality, English make, 2-oz., per dozen, 15/-; 4 oz., 23/- Reduced prices.

B732/F. Maw's double action, with arabesque ball, per dozen, 30/-

B733/F. Ordinary pattern, black fittings, per dozen 3/9 and 5/9.

B739/F. Maw's, with I.R. lining, black fittings, per doz., 12/-

See pp. 88-89 in our Catalogue for complete illustrated list.

OUR OPTICAL CORNER

The Optical Corner of the window is very often difficult to dress effectively, and needs something to counteract that flatness so often noticed. Nothing does this better than a few judiciously placed crystal glass blocks. They always look nice, and will scintillate in the rays of sun or electric light. We hold a good stock and shall be pleased to send a selection on approval. The cost is 2/- and 2/6 each.

GEORGE LUEDERS & CO.

NEW YORK, 218, 220 & 211 Pearl Street.
CHICAGO, 301 W. Randolph Street.
SAN FRANCISCO, CAL., 11 Main Street.
MONTREAL, 396 St. Paul Street.
MEXICO CITY, Av. Independencia 10.
Letters address : P.O.B. 1498 NEW YORK. Cable address : "GUALACUM."

Import and Export :

Essential Oils, Olive Oil, Vanilla Beans, Natural and Synthetic Perfumers' Materials.

COMPRESSED POWDER

in best quality, in all sizes and colours, perfumed and non - perfumed, supplied cheaply and well by

KOPP & JOSEPH, *Perfumery Manufacturers,*
POTSDAMERSTR. 122, BERLIN, W.
Ask for free samples.

Advertised Goods are Good Stock if the Goods are Good.

JEWSBURY & BROWN'S

ORIENTAL

TOOTH POWDER,

6d. and 1/-

Is the Best and is well Advertised.

JEWSBURY & BROWN, Ardwick Green, MANCHESTER.

7

"TUFFLEX"

Registered Trade Mark.

A new material for Combs. Immensely Strong.

ALSO SUPPLIED WITH ALL COARSE TEETH AND WITH HANDLE AT SAME PRICE.

TUFFLEX COMBS are STRONG Combs.
TUFFLEX COMBS are UNBREAKABLE Combs.
TUFFLEX COMBS are NON-INFLAMMABLE.
TUFFLEX COMBS are WELL FINISHED.
TUFFLEX COMBS are NOT EXPENSIVE,
and are within the reach of all.

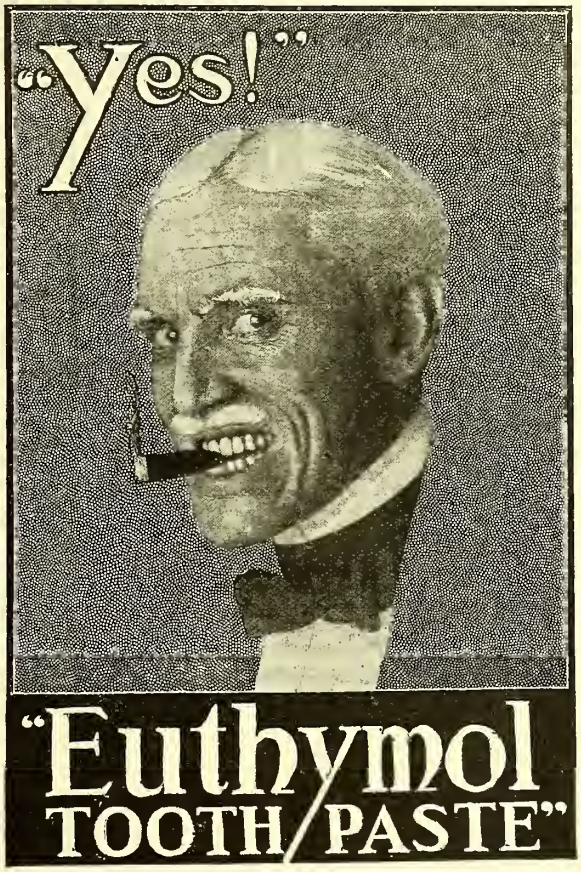
TRY THEM and you will say
THIS IS TRUE!

Manufactured by—
"TRAUNS" THE MAKERS OF THE CELEBRATED Vulcanite GRIPWELL Combs,
& may be obtained from all the usual Wholesalers.

When you are asked—

Whether there is a dentifrice which, in the strength applied to the teeth, really exerts any appreciable germicidal power within the time ordinarily devoted to the dental toilet,

You can answer—



This design (in three colours) is being used as a poster (19 by 30) in our Euthymol Tooth Paste publicity.

Would you like one for your window? Ask for a No. 6 Poster on your next order.

BUY on Display Terms

(particulars may be had on application), and benefit by our Advertising.

Every customer convinced means that the full profit on the sale of many dozens of Euthymol Tooth Paste will find its way into your till.

PARKE, DAVIS & Co. (T.J. 6), 50-54, Beak Street, LONDON, W.

£5 Bank Note for you!

1st Prize	....	£5 Bank Note
2nd „	....	£3 Cash
3rd „	....	£1 Cash
4 Prizes of	....	5s. Cash
25 „	....	"Glidon" Razors (Protected retail 5s.)

The above are unreservedly offered to those selling the largest amount of

"NU-TRO"

during JULY to OCTOBER
(WHOLESALE HOUSES EXCEPTED).

Goods are on SALE or RETURN. Any not sold may be returned.

"NU-TRO" is selling well where introduced. SHOWCARDS and HANDBILLS are supplied free.

"NU-TRO" is the **guaranteed cure** for **SCURF** and **WEAK GROWTH**, as proved by very many delighted users.

The following was recently received:

"For several years I have lost the hair from the crown of my head. I have tried various hair restorers, but none has given satisfaction. As regards your treatment, I must say I was astonished at the improvement in the growth even after only using two 2d. tins, as I had again prepared myself for the disappointment experienced by the use of other methods. You may make what use you like of this unasked-for testimonial, which I feel obliged to send owing to the entire satisfaction I have received by the use of 'NU-TRO.' (Signed) ARTHUR JOHN PEARCE.
24 Meadow Street, Pontycymmer, Glam."

20s. "NU-TRO" carriage paid in the United Kingdom.

Prices show Liberal Profit of 50 %.

3d. Jars	...	**2s.**	dozen.
6d. „	...	**4s.**	„
1s. „	...	**8s.**	„
2d. Trial Tins		**16s.**	gross.
1d. „ „		**8s.**	„

"NU-TRO-SOL," the liquid essence of "NU-TRO," free from grease, **8s.** dozen.

"NU-TRO" SHAMPOO POWDERS, **7s. 6d.** dozen boxes of **7** powders.

SALES ARE GUARANTEED.

Send To-day and Start Sales Early.

"NU-TRO" CO.,

31, 33, 35 Lower Castle Street, BRISTOL.

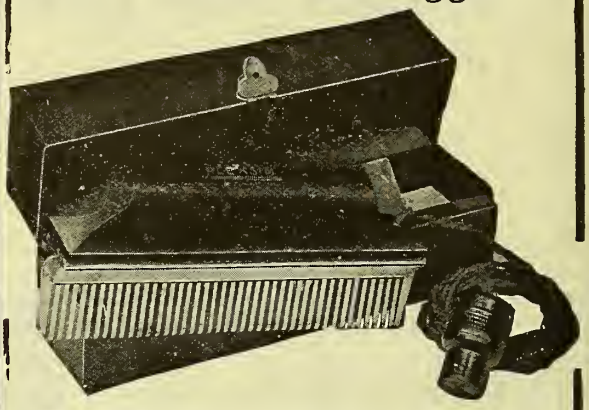
Conditions of entry are only three:

1—If "NU-TRO" is for sale in two or more shops the number must be stated on order. Sales will be divided by the number to give the average for each shop. This gives all an equal chance, and offers the trader with more than one shop the opportunity to secure two or more prizes.

2—Any goods for return must be dispatched and advised on or before November 3, and reach us by November 10. Results will be advertised in the Trade Journals.

3—"NU-TRO" goods must be sold at full face value.

A paying side-line for all Chemists and Druggists.



The "Plexsim" Electric Comb and Hair Dryer.

It will dry the heaviest head of hair in twenty minutes, without fatigue. Gives all the effects of an expensive shampoo, and leaves the hair soft, glossy and wavy. Can be attached to any existing electric light socket.

Complete in Leather Box, 12/6

SIMPLEX CONDUITS, LTD.
GARRISON LANE,
BIRMINGHAM.

OVER 100% PROFIT ENSURED & PROTECTED (P.A.T.A.)
for sellers of

Laurence's Hair Dyes

One solution, nine shades.

A first-class article with an excellent demand, created entirely on its own merits, and carrying a first-class profit.

Size.	Minimum retail.	Minimum wholesale.	
1/-	1/-	7/6	per doz. less 5% discount
1/6	1/6	9/-	
2/6	2/3	15/-	
3/6	3/3	21/-	

SPECIAL BONUS.

Buyers of 3 doz. bottles receive 3 bottles gratis (may be assorted and any size).
Do. 6 doz. do. 8 bottles gratis.
Do. 12 doz. do. 18 bottles gratis.
Equivalent in the case of the size in most general demand, viz. 1/6 size to 4/6, 12/- and 27/- respectively.

SOLE PROPRIETORS—

C. R. HARKER, STAGG & MORGAN, LTD.
DEVON WHARF,
Emmott Street, Mile End, London, E.

L. GIVAUDAN,

GENEVA, SWITZERLAND.

Manufacturer of all kinds of

SYNTHETIC & AROMATIC CHEMICALS

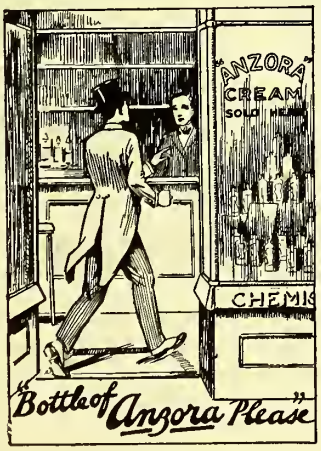
Acetate of Linalyl	Jasmins
Bergamot art.	Musks
Cinnamic alcohol	Neroli
Citronellol	Phenylethylic alcohol
Coumarin	Rhodinol
Geraniol	Roses
Geranium	Violets
Jacintheas	

&c. &c.

LONDON BRANCH: 43/45 Great Tower Street, E.C.
Telephone Number: Avenue 83.
Telegraphic Address: "Muskinol-Bilgate, London."
AMERICAN BRANCH: Geo. Lueders & Co.,
218 & 220 Pearl Street, New York.

"A Bottle of Anzora, Please!"

If you have not already had this demand you shortly will have, for "Anzora Cream" is being extensively advertised both in the Press and on the Railways — every day thousands of prospective buyers see these advertisements and are influenced to buy.



Be prepared to meet these buyers. Stock "Anzora" now, it will mean extra and remunerative business for you, for "Anzora" is on the P.A.T.A. and ensures

80 % Protected Profit for the Retailer

when purchased in lots of 3 doz. and upwards.

Trade Terms:

Per doz.	Retailed at
11/6	18/-
19/6	30/-

We give 10 % discount on orders of 3 dozen or more.

ORDER A SUPPLY TO-DAY from your usual Wholesaler and send a card to us for Showcards.

THE ANZORA PERFUMERY CO.

32/34 Willesden Lane, London, N.W.

A. Boake Roberts & Co., Ltd.,

STRATFORD, LONDON, E.

. . FOR . .

SOLUBLE ESSENCES, ESSENTIAL OILS, OIL LEMON.

If you wish to make first-class ∴ Aerated Waters, use ∴

BOAKE ROBERTS' ESSENCES.

Finest Soluble Essences:

Lemon,
Orange,
Ginger,
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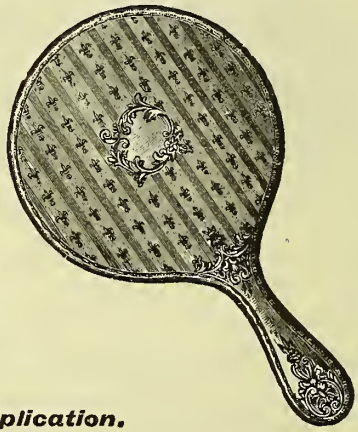

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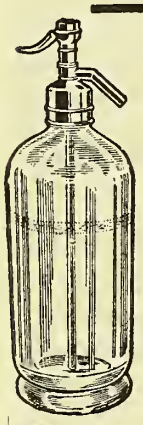

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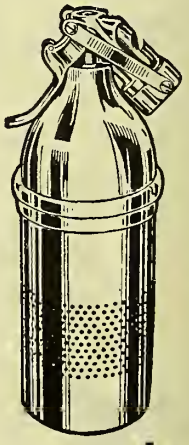

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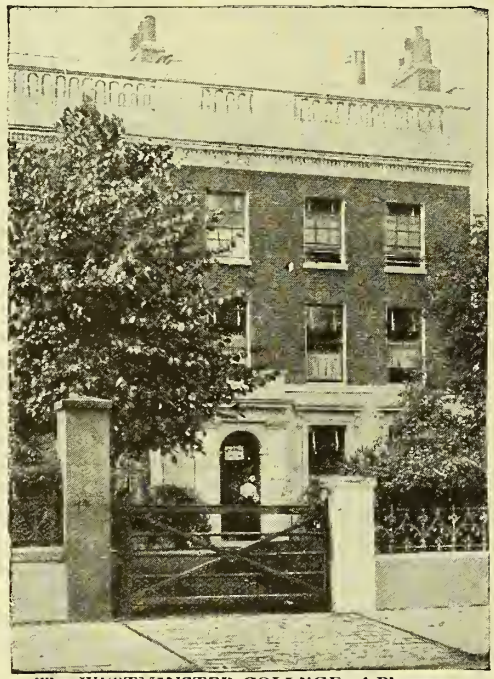

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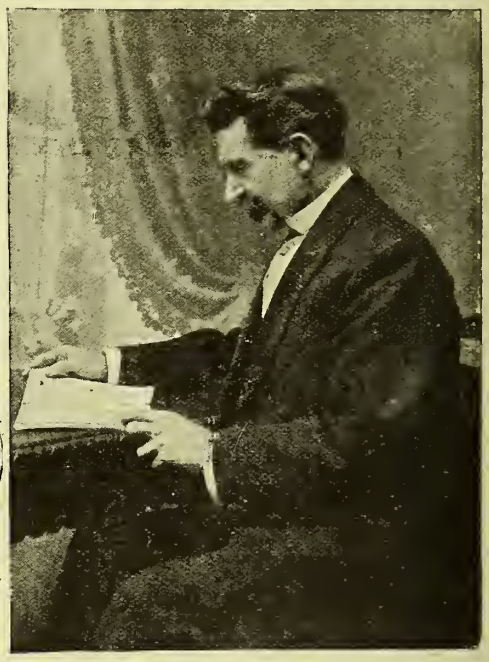

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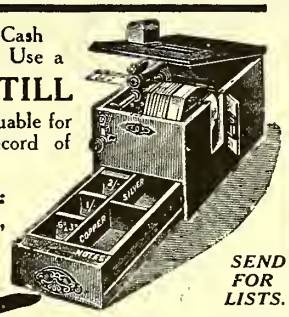

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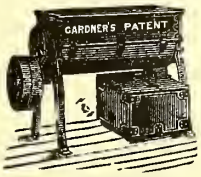

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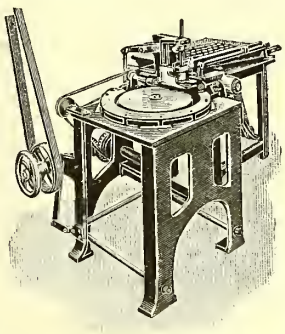

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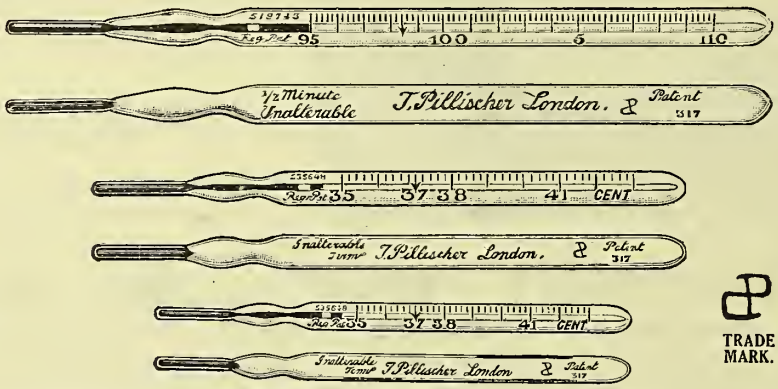

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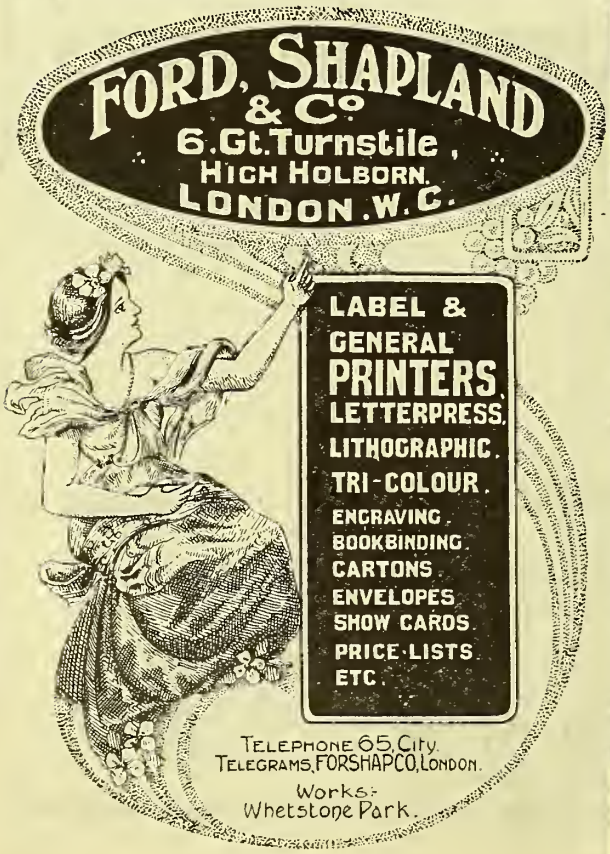

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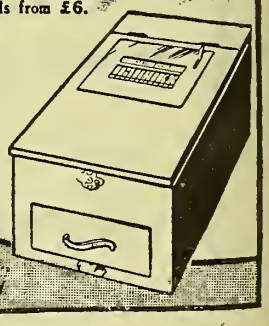

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THE CHEMIST & DRUGGIST

Summer Issue
July 25, 1914

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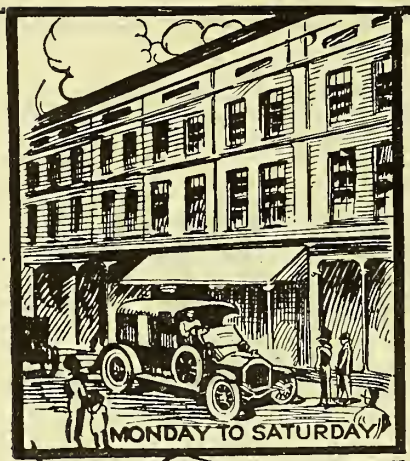

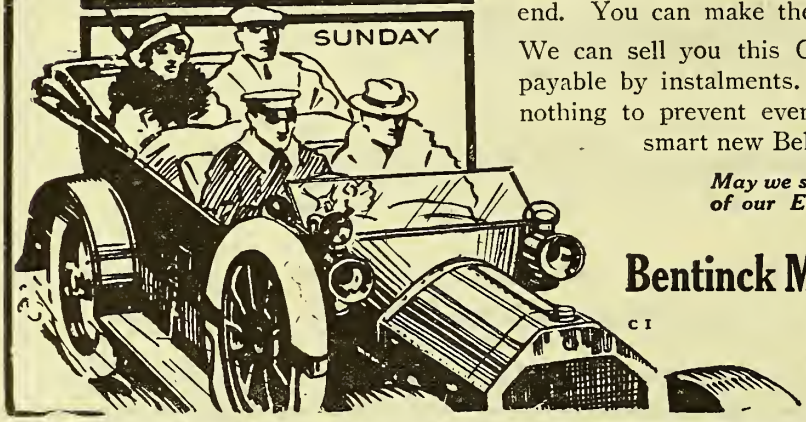

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In the Coloured Supplement.

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SUMMER ISSUE
and
CONFERENCE NUMBER,
July 25, 1914.

In addition to its many other attractions, the Summer Issue, to be published next week, will contain a comprehensive report of the proceedings at the British Pharmaceutical Conference meeting at Chester (July 20 to 24). The more interesting the number the better for the advertisers and in this connection the Publisher asks us to remind those who desire to use the ordinary advertising pages of that Issue that he cannot guarantee the insertion of any announcement received after

Tuesday Morning, July 21.

Telegraph to—	Write to—	Telephone to—
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SUMMARY.

Subscribers are advised to read this column first.

Articles and Communications.

The supply of orange essential oil from the West Indies may be maintained (p. 34).

Quicksilver is justifying its name in the markets as well as in the physical world. The situation is discussed on p. 50.

"Breaking bulk" is discussed by a correspondent (p. 65), but the subject was not carried to the vote at the P.A.T.A. meeting (p. 61).

We deal editorially with the Insurance Conference, and point out the significance of Mr. Masterman's reply to the deputation from it (p. 48).

We discuss from the legal point of view the Bradford Recorder's decision in the Wincarnis-with-quinine case (p. 49). "Xrayser II." also says something about it (p. 47).

News of the Week.

Two fatal motor-car accidents are reported (p. 37 and p. 42).

The Irish Pharmaceutical Licence examination pass-list is on p. 36.

More questions about Insurance Acts matters have been answered in the House of Commons (p. 45).

Mr. R. Drane, of Cardiff, a notable pharmacist and archæologist, died on July 14 (p. 42).

The right to the use of the word "dental" in company titles is before High Court Judges (p. 39).

A month's notice to chemists' assistants may not hold universally. See the case reported on p. 39.

The new British Pharmacopœia will be published on October 9, but will be available for consultation before that (p. 50).

The Crown Chemical-works have, on appeal, had the decision of Judge Smyly in the prussiate case reversed (p. 39).

Messrs. Spiers & Pond have failed to get from an assistant a book of formulæ written while in their employment (p. 38).

Chemists are excluded from the Bill now before the South African Parliament for reciprocity of professional qualifications throughout the Union (p. 38 and p. 50).

Crookes's collosols have come before the High Court, 30,000*l.* damages being sued for by the person who secured the patent rights. A company promoter is the defendant (p. 39).

The makers of Bendle's meat-port nutrient have succeeded in their action against the United Kingdom Alliance and others, receiving 250*l.* damages and costs (p. 40). It is understood that other actions are to follow.

The Stevens consumption-cure libel case is again on, and Mr. Stevens, the plaintiff, has asked the British Medical Association to justify what was published in "Secret Remedies." The immediate result is curious (p. 40).

The Local Associations Conference in London this week (p. 54) is memorable on account of a deputation from it being received by Mr. Masterman. A full report of the interview begins on p. 51, and one of the Conference on p. 54.

The greater part of the business at the annual meeting of the Society of Chemical Industry at Nottingham was taken up by the reading of an address by Sir William Crookes. This reviews recent progress in chemical industry. The Society's medal was awarded to Sir Henry Roscoe, who was, however, too unwell to be present (p. 43).

Trade and Market Matters.

A further instalment of letters from English herb-growers in regard to crop conditions is published on p. 64.

The few market changes comprise an advance in cocaine, thymol, ammonia sulphate, and codeine. Among the cheaper products are benzols, lead-compounds, lemon oil, ergot, and American peppermint oil. English oil of peppermint will be dearer this season (p. 62).

B

MEDICAL MEMORANDA.

The Treatment of Ankylostoma Anæmia.

PROFESSOR H. B. DAY, of the Egyptian Government School of Medicine, writes in "The Lancet" of July 11 about the treatment of ankylostomiasis in the Cairo Hospital of Kasr-el-Ainy. He finds that patients with slight anæmia may benefit from hæmatinics without the expulsion of worms, but no case of decided anæmia can be really improved unless the worms be expelled. Recent cases of moderate anæmia from ankylostomiasis are cured by expulsion of the worms, but recovery in most chronic cases is very slow unless hæmatinics be given. Under treatment with vermicides and iron the rise in hæmoglobin is a reliable index to the expulsion of the worms, provided the marrow be in a condition to respond. The administration of simple forms of iron by the mouth is more satisfactory than the use of organic compounds or hypodermic medication. Manganese cannot be substituted for iron. After the expulsion of worms in a moderately severe case the recovery from anæmia is better and quicker when arsenic is given as well as iron. In severe cases of ankylostomiasis the administration of arsenic is often essential to recovery. In such cases arsenic given by the mouth may be ineffectual, but hypodermic medication generally succeeds. Arsenic by itself is useless. Iron is always essential to recovery from severe ankylostomiasis. Persistent eosinophilia after the complete expulsion of worms may be attributed to the presence of living larvæ in the tissues. Intense and persistent anæmia in ankylostomiasis generally denotes exhaustion and atrophy of the bone-marrow. In regard to the methods of expelling the worms, Professor Day gives the following table to show the results obtained with various anthelmintics:

Drug	Dose	How Given	Worms Expelled
	Grm.		Per cent.
Thymol	5	One grm. two-hourly. Followed by castor oil	83
Beta-naphthol	3	As above	68
	4	As above	74
Eucalyptus ...	3	Mixture. In two portions at interval of half an hour	38
Chloroform ...	3·5		
Castor oil	40		
Oleum chenopodii	3	In three doses of 16 drops on sugar every two hours. Followed by castor oil 17 grm. with chloroform 3 grm.	91
		As above, but without castor oil and chloroform	84

Professor Day uses a mixture of thymol (3 to 4 grams) with beta-naphthol (3 grams). The addition of beta-naphthol reduces the dose of thymol necessary and ensures a thorough breaking-up of the crystals, which often tend to pack together in the cachets. Oleum chenopodii is expensive and has a peculiarly disagreeable flavour, most repulsive to patients, so was not persevered in. Whatever vermicide be chosen, a preliminary preparation of the patient by fasting and purgation is strongly advisable. The usual course consists of milk diet for one day, with a saline purge in the evening in order to free the upper intestinal tract from food and mucus and so expose the worms, which often lie buried. The vermicide is then given early the next morning on an empty stomach in divided doses, and the drug swept out by a second purge two hours after the last dose. Until this is finished the patient is kept in bed.

DR. NELSON'S LOOFAH SOCKS.—Messrs. John Morgan Davis & Sons, 278 Bishopsgate, London, E.C., have received the following letter, dated July 13, from the Board of Customs and Excise: "Gentlemen,—In reply to your letter of the 4th inst., the Board of Customs and Excise will, as an indulgence, allow a period of three months from the date of this letter for the disposal of your present stock of printed matter." This has reference to the case reported in the *C. & D.*, July 4, and gives retailers time to dispose of existing stocks.

SCIENTIFIC PROGRESS.

Temperatures under this heading are on the Centigrade scale

Naphthalene as Larvicide.—Mr. A. W. Bacot, of the Lister Institute, states in the "British Medical Journal" (1914, II., 15) that he has found naphthalene to be an efficient larvicide. He suggests that flake naphthalene sprinkled on the water of covered cisterns and wells would act as a deterrent to the breeding of mosquitos. In some experiments it was found that adult *Culex pipiens*, as well as larvæ, were quickly killed. Mr. Bacot points out that naphthalene is cheap, and has the advantage of being only slowly evaporated. It imparts a flavour to the water, but this is avoided if the naphthalene is suspended above the water-surface.

Alkaloid of Galega Officinalis.—Tanret has obtained the alkaloid galegine from the seeds of *Galega officinalis* by percolation with 60-per-cent. alcohol and treating the extract with lead acetate, dilute sulphuric acid, and ether, after which the liquid is concentrated and treated with baryta and alcohol to remove sugar (saccharose and stachyose). The baryta-freed alcoholic liquid on acidulation with sulphuric acid and concentration yields crystalline galegine sulphate, $(C_6H_{13}N_3)H_2SO_4$, to the extent of ½ per cent. The salt forms white, bitter, and optically inactive crystals, which melt at 227°, and are soluble at 19° in 23.3 parts of water. The free galegine, $C_6H_{13}N_3$, forms very hygroscopic, optically inactive crystals, melting at 60° to 65°, and easily soluble in water and in absolute alcohol, but in ether, chloroform, and petroleum ether it is sparingly soluble. ("Compt. rendus," 158, 1182, 54.)

West Indian Orange Oil.

SOME interesting first-hand information in regard to the West Indian orange-oil industry as it is to-day is published by the Journal of the Jamaica Agricultural Society. It appears that until the time of the Messina earthquake, when large stocks of new season's oil were destroyed, there was practically no sale for West Indian orange oil in London, well-known brands of Sicilian holding the market at from 4*s.* to 4*s.* 9*d.* per lb. c.i.f. At this period Jamaica manufacturers did their best to meet the demand at the higher prices that were offered, and were given a chance to show that the West India oil, although slightly different, could be substituted for oils previously used. The Jamaica industry suffers from lack of centralisation, the oranges being spread over pastures and hillsides, whereas in Sicily the oranges are grown chiefly in groves, and are rinded in central factories. The Jamaica peasants are sent out with hand-machines and bottles to collect and rind the fruit under the trees, the bottles containing, after rinding the fruit, a mixture of oil, mucilage, and juice. After "settling" the oil is decanted, clarified, packed in copper drums, and shipped to London. The bulk of the oil produced is handled by two firms of London merchants, who act as agents for the producers. The oil is mostly sold by private contract, according to brand, and, as the demand is limited, great care is necessary both in selling and manufacturing not to overstock the market. For the past two years the prices paid by producers to the owners of fruit, together with the wage paid to the person rinding the fruit, have been higher than the normal selling-price c.i.f. London. The writer of the article hopes that the business will be left alone in the hands of those who have by bitter experience learnt the "ins" and "outs" of orange oil. It will, he says, be an unfortunate day for orange-growers if the collection and shipment gets into a multitude of hands, with the usual fighting among producers and bidding-up of prices in Jamaica, in the hope of shipping plenty of oil.

AËRATED-WATER BOTTLES.—A correspondent in "The Lancet" suggests that some inventive genius may bring forward a stopper—a simple matter—which will cover as a shield the aperture of the bottle and prevent flies depositing their filth there. A paper cover over the stopper could be used for bottles—as in the case of a well-known brand of bottled beer—and a small metal shield or cap, with chain, for syphons.

TRADE NOTES.

Viscose Development Co., Ltd., Pembroke Road, Bromley, Kent, makers of "Semreh" bottle-caps, will close their office and works from Saturday, August 1, until Monday morning, August 10, for annual holidays.

The Odol Chemical-works, 59-63 Park Street, Southwark, London, S.E., are at present advertising in illustrated papers a photo competition for 150*l.* in cash prizes. They will send to any chemist on application a proof of the illustrated advertisement on art paper for displaying in the window as an attraction. It goes well with a photographic window-display.

Druggists' Sundries.—Messrs. F. Schutze & Co., Ltd., Black Bull Works, Caledonian Market, London, N., have sent us a copy of the new edition of their "List No. 1" of druggists' sundries. This particular sectional list deals in a comprehensive manner with the company's various manufacturing departments for surgical appliances, articles made of waterproof material, toilet requisites and preparations, powder-puffs, and packed goods. The list contains 112 pages, and the various items are illustrated by half-tone photographic blocks, full details being appended regarding prices and sizes. It is a list which is worth studying by keen buyers.

Boy-scout Camp.—A novel advertising idea has been brought out by Messrs. Newball & Mason, manufacturing chemists, Maville Works, Nottingham, which takes the form of a competition for boy scouts. A card is supplied with a view in colours, and upon this the competitors are required to build up a model camp with material supplied—tents, trees, etc.—which have to be cut out and fixed in the proper position. The last date upon which the models can be sent in is August 1, and the prizes are watches and stylographic pens. The competition should promote the sale of Mason's Extract of Herbs, as it is necessary to send with each completed model a wrapper or label from the bottle of the extract of herbs.

"Evans' Journal" for July 1914 has just been published. This is No. 9 of the journal, which was founded last year by Messrs. Evans Sons Lescher & Webb, Ltd., 56 Hanover Street, Liverpool, the feature being the bacteriological side of medicine. In the present issue the first article is one dealing with the technique of the simpler methods of bacteriological diagnosis. This is the first part of a series intended to assist medical men and others to carry out the simpler diagnostic investigations of pathological material. The notes are continued on radium, the examination of fæces, and diagnosis of pulmonary tuberculosis. Several pages are devoted to abstracts from "Evans' Analytical Notes," recently referred to in this column.

Splint Outfit.—Messrs. Burroughs Wellcome & Co., Snow Hill Buildings, London, E.C., have devised a splint outfit under the name of "tabloid," which well carries out the idea of compactness and does not in any way sacrifice usefulness. In a box which measures 16½ by 5⅜ by 2¾ in. a complete splint outfit consisting of splints and bandages is packed. The splints are of varnished metal—four narrow and four broader sheets—with the edges raised and grooved so that one splint can be slid into another, giving a rigid splint of almost double the length of the original. In this way one can fix up a long splint for the thigh, and by using the unextended metal splints an arm or leg is accommodated, while for the finger a stout card is furnished, from which any desired sizes of smaller splints can be cut. Strips of felting are supplied for the purpose of padding, and these may be folded in suitable thicknesses. Finally, there is a supply of first-aid bandages for fixing the splints on the limb. The whole outfit packs into a cardboard box, and is probably the most useful thing of its kind for serious work, as distinguished from makeshift arrangements often advocated by teachers of first-aid or employed in surgical emergencies.

Each Dollar of Customs collected in Baltimore in 1913 cost 6.7c. to collect.

ENGLISH AND WELSH NEWS.

Subscribers are invited to send to the Editor newspapers containing news of trade interest. Please mark the items.

Brevities.

Bradford Technical Education Committee has decided to appoint a lecturer for pharmaceutical subjects (afternoon and evening classes).

At Ferryside on July 9, Mr. Thos. Morgan, an apprentice with Boots, Ltd., Morriston, near Swansea, was drowned while bathing.

Mr. Jack Allison, son of Mr. Henry Allison, chemist and druggist, Lincoln, who is a chemist's assistant at Leamington, had a serious accident last week, striking his head while diving at the baths. He fractured his skull, but since he was trepanned he has made progress towards recovery.

Referring to the announcement in the *C. & D.*, July 11, p. 35, of the purchase by Sir Joseph Beecham of the Covent Garden Estate, London, it is now stated that Sir Joseph's interest has been acquired by Mr. A. L. Ormrod, of Manchester, who was associated with him in the purchase from Mr. Mallaby-Deeley.

The Deptford Borough Council has decided that a communication should be addressed to the Local Government Board as to the use of preservatives in "sweets" such as raisin wine, and that the Metropolitan Borough Councils be asked to support this Council's action in the matter. Councillor W. H. Brooks (chemist) took part in the discussion.

Wolverhampton Town Council has made an order under the Shops Act for the closing of chemists' and druggists' shops (except for the sale of medicine and medical and surgical appliances) at 8 p.m. on Mondays, Tuesdays, and Wednesdays, 9 p.m. on Fridays, and 11 p.m. on Saturdays. The weekly half-holiday has been fixed for Thursday afternoons from 1 p.m. The order will not apply to the week preceding any Bank holiday nor to the working days preceding December 25. All shops in the area in which a retail business in articles commonly sold by chemists and druggists is done are included in the order.

Sale of Food and Drugs Acts.

The Walsall public analyst recently examined three samples of camphorated oil, two of which were deficient in camphor to the extent of 26 per cent. and 24 per cent. respectively. Proceedings were taken against the vendor, who was ordered to pay costs.

Wandsworth.—The following samples were analysed in the borough during the past quarter: Citric acid, 1; tartaric acid, 3; cream of tartar, 3; Friar's balsam, 2; almond oil, 3; eucalyptus oil, 6; iron pills, 1; Gregory's powder, 6; scidlitz powders, 6; powdered rhubarb, 2; tincture of iodine, 1; and ammoniated tincture of quinine, 6. All were genuine excepting one sample of Gregory's powder (informally taken), which was found to contain carbonate of magnesium in place of oxide.

Contracts.

Brentford District Council.—A. Wood, for "Izal" and "Sanitas."

Grantham Town Council.—Mr. H. Hopkinson, for drugs for six months

Wigton Guardians.—Mr. R. H. Brown, appointed chemist for three months.

Swansea Education Committee.—Phillip, Harris & Co., Ltd., for chemicals.

Bradford Education Committee.—Messrs. Harrison, Parkinson & Co., for apparatus and chemicals for Technical Education Department.

Stretford Urban District Council.—United Alkali Co., Ltd., for chloros; Burgons, Ltd., for soaps and Guy's cleanser; North British Chemical Co., for soft soap; R. Young & Co., for liquid soap.

Guardians' Doings.

The Dispensary and Vaccination and Infirmary Visiting Joint Committee of Paddington Guardians have considered the whole question of the arrangements for dispensing medicines for indoor and outdoor poor. During the last two years a considerable reduction has taken place

in the number of prescriptions dispensed, and the committee are of opinion that there is no longer any necessity for the employment of a qualified dispenser for this work. Having consulted the medical superintendent of the infirmary, the committee recommend that a fully-qualified dispenser of either sex be appointed at the infirmary, whose duties shall include the dispensing of medicines for the indoor and outdoor poor, and that the scale of salary be that sanctioned by the Local Government Board—viz., 120*l.* per annum, rising at the end of four years to 140*l.* per annum, and thence by biennial increments of 10*l.* to a maximum of 180*l.* per annum. Also that a junior assistant be appointed to assist the dispenser in connection with the duties at the infirmary at a salary of 15*s.* weekly, rising by annual increments of 2*s.* 6*d.* to a maximum of 20*s.* weekly.

Poor Law Dispensers and Dispensing.

The salary of the dispenser at the infirmary of the Newcastle-upon-Tyne Union, Miss Hunter, has been increased from 80*l.* to 90*l.* per annum, and is to rise to 100*l.* by annual increments of 5*l.*

The Local Government Board have informed the Lambeth Board of Guardians that they assent generally to the Guardians' proposals (*C. & D.*, June 6, p. 36) for agreements being entered into with chemists for the dispensing of medicines for the outdoor poor, subject to the condition that "all medicines shall be dispensed, and all drugs and appliances supplied, at the prices and fees specified in the Drug Tariff of the London Insurance Committee, dated January 1914." After the expiration of the first three months a statement of the actual cost of the new arrangements, in comparison with that under the previous system, is to be furnished to the Board, and if the results are unsatisfactory, the Board may have to ask for a revision of the arrangements. The Board sanctioned the payment to Mr. P. S. Thomas, chief dispenser, of a salary of 220*l.* per annum, with 10*l.* per annum for dinner, and to Mr. E. Darch, as dispenser for the infirmary, of a salary of 200*l.* per annum, with 10*l.* per annum for dinner, these salaries to be regarded as the maxima to the present officers. The Board were not prepared to recognise officially the designation of "pharmacist" in the case of Mr. Thomas. The Infirmary Committee reported to a meeting of the Guardians that steps had been taken to bring the new arrangements into force at as early a date as possible.

Birmingham.

The window-decorations of the local pharmacies seem just now to take the form of a blaze of colour—yellow if summer drinks are conspicuous, purple for perfumes, while red is also a favourite setting. They are very effective and pronounced.

The "Chemist" still continues to air in the local Press his grievances *re* non-payment of his bills under the National Insurance Act, informing the public that July 11 is the last day of the sixth quarter, and that for the fourth quarter there is 60 per cent. owing, and for the fifth quarter 25 per cent. Many chemists are doing 100*l.* per quarter, from which fact their loss may be inferred.

The local Public Health and Housing Committee, on the instigation of the committee of ladies interested in the care of children born at the Maternity Hospital, have issued to vendors of feeding-bottles a memorandum on the desirability of ceasing the sale of such bottles having a long indiarubber tube. They point out that there is no law to prevent their sale, and their only course is to appeal to the good sense of the trade.

Liverpool.

We learn that Mr. John H. Robinson is not proceeding with his resignation of the secretaryship of the local Association, the subject of this strong protest on his part having been amicably arranged.

Boots, Ltd., have a unique fruit saline show at their Lord Street branch. An arch of green-painted trellis-work, with bunches of grapes and lemons intertwined, fills one window. In the interior of the arch are bottles of fruit saline and cartons. A card informs the purchasing public that the fruit saline contains all that is best in the grapes and lemons.

From Various Courts.

Before Mr. Denman, at Marlborough Street Police Court on July 11, John Michael Desmond (58), described as a chemist, Langley Lane, Vauxhall, was remanded on a charge of having obtained on April 15 at Regent Street from Alfred William Goddard the sum of 50*l.* by false pretences.

The inquest on the body of Miss Kate Addison Scott, which had been adjourned for the Home Office experts to investigate the effects of a drug [scopolamine, *C. & D.*, June 13, p. 36] which had been administered, was concluded on July 11 at Hounslow. Dr. Willcox, analyst to the Home Office, said he had made a careful test for poison in the stomach and found minute traces of an alkaloid. It would have the same action as scopolamine or hyoscine, but he could not say if it were either. He could not say that scopolamine caused death, as there was not a poisonous dose in the body. From what he saw and heard, the patient possibly died from her disease. The jury returned a verdict of death from natural causes.

The inquiry into the circumstances attending the death of Harriet L. Roberts (aged ten), who died at the Royal Portsmouth Hospital through eating a piece of poisoned cake picked up in the street (*C. & D.*, June 20, p. 55), was concluded at Portsmouth on July 15. The borough analyst reported on his analysis of the contents of the child's stomach, as well as that of the pieces of cake found. He had found 65 grains of arsenic in all the articles submitted to him. The cake was a sort of mixture used for killing rats. In summing up, the Coroner strongly condemned the conduct of those who threw out the poisoned cake and had not come forward to explain the reason for their doing so. No doubt it was placed there for the purpose of killing rats, cats, or dogs. The jury returned a verdict of "Accidental death," and endorsed the Coroner's remarks.

Thomas Harwood Briggs, chemist and druggist, was charged at Stoke-upon-Trent Police Court on July 8 with embezzling 14*s.* 10*d.*, the money of Mr. H. W. Hulme, Heron Cross Pharmacy, Fenton, on April 23. Mr. Hulme said defendant was employed by him as a traveller and assistant till April 27, and his duty was to pay in all moneys within twenty-four hours of receipt. He brought this charge in consequence of what he ascertained from a customer. Defendant pleaded guilty, and on his behalf Mr. F. Collis stated that his explanation was that he had taken the money to meet travelling-expenses. He was now in a position at Derby at 3*l.* a week, and his employer was willing to take him back if he were dealt with under the First Offenders Act. Mr. Hulme said he did not wish to press the case, and the Magistrates took this into consideration in dealing with defendant under the First Offenders Act and ordering him to pay 23*s.* costs.

IRISH NEWS.

Subscribers are invited to send to the Editor newspapers containing news of trade interest. Please mark the items.

Pharmaceutical Society of Ireland.

Pharmaceutical Licence Examination.—The following is the result of the recent examination in Dublin: Miriam Eunice Hanna, Walthamstow, London, and Thomas Mockler, Thurles, passed with honours. The following also passed: James Joseph Cosgrove, Kildare; Hubert Sweeny, Londonderry; James Maguire, Belfast; Frank Eddey Priestman, Dublin; Joseph Francis Webb, Armagh; David McGahie, Stewartstown; Joseph Michael Carrick, Dublin; Charles Henry Fielding, Cork; Patrick Gleeson, Bruff; Stephen Whelan, Cork. Fourteen candidates were rejected.

Brevities.

Last week a fire occurred in the yard of Messrs. Hugh Moore & Alexander, Ltd., Dublin, in which were stored a quantity of inflammable materials. The fire-brigade were summoned and the fire was quickly extinguished.

Mr. David John Fenton (63), stock-room manager for Messrs. Grattan & Co., pharmaceutical chemists, Corn Market, Belfast, was accidentally killed on July 11 at Bangor, co. Down, where he was taking a holiday. He was driving with his wife and Mr. Theophilus Harper, Ph.C., also of Grattan's, from the railway station to his apartments, when the car, in rounding a corner, gave a lurch, and he was thrown off on his head. His skull was fractured, and death took place in a short time. An inquest was held on Monday.

In a circular to the creditors, dated July 3, of Mr. W. Hay, chemist, late of George's Street, Cork, Messrs. Hackett & Hawkesworth, 49 South Mall, Cork, intimate that it is their intention "to offer a composition of five shillings in the pound, the money for this purpose being supplied by Mr. Hay's father. We may state," they add, "that the Sheriff, several weeks back, seized and sold our client's stock and fittings under a High Court judgment of several decrees." Among the creditors are Messrs. Ayrton, Saunders & Co., Ltd., Liverpool, for 20*l*.

Drug-analysis.

Mr. R. F. Blake, Belfast, has been appointed analyst to the Larne Union, co. Antrim.

The Wexford Guardians have appointed Mr. W. Thorpe as analyst at 18*l*. a year, and the Local Government Board have approved of same.

Dr. Hickey, Kilmihill, has explained to the Kilrush Guardians the cause of the delay which was complained of lately in forwarding samples of medicines for analysis. Dr. Hickey states that he was unaware that there is a fixed time within which samples should be sent. The letter was considered satisfactory.

SCOTTISH NEWS.

Subscribers are invited to send to the Editor newspapers containing news of trade interest. Please mark the items.

Edinburgh and District.

Mr. Harvey, chemist and druggist, Tranent, is having his pharmacy enlarged and renovated.

There has been a considerable demand for photographic materials as a result of the visit of the King and Queen to the Scottish capital.

Mr. John Macintyre, chemist and druggist, North Berwick, has been appointed a Justice of the Peace for the county of Haddington.

Mr. Thomas Barron, chemist and druggist, Albany Street, Edinburgh, and Mr. A. Cruickshank, chemist and druggist, Musselburgh, have passed the Qualifying examination of the Spectaclemakers' Company recently held in Glasgow. This is the first time this examination has been held in Glasgow.

Mr. W. A. Caspari, B.Sc., Ph.D., assistant, Chemistry Department, University College, London, was recommended out of six candidates for the position of Professor of Chemistry in the Heriot-Watt College. The recommendation of the committee, however, did not meet with the approval of the Governors, and the matter was remitted back for reconsideration.

The contributors to the Royal Victoria Hospital for Consumption have authorised the trustees to transfer the hospital, with the dispensary and farm colony connected therewith, to the Corporation of the City of Edinburgh, as local authority under the Public Health Acts. It is of interest to note that this was the first tuberculosis dispensary in any part of the world.

Glasgow and the West.

Mr. Taylor, late of W. E. Taylor & Co., wholesale druggists, Cadogan Street, has opened a warehouse in St. Enoch's Square.

Mr. Peter Fenton, chemist and druggist, Cardenden, Fifeshire, has obtained the D.C.O. diploma of the Glasgow College of Optics.

Mr. M. M. Irvine has taken over the School of Pharmacy, at 180 West Regent Street, which he has managed for two years for Mr. John Lothian. Mr. Irvine served his apprenticeship with Mr. Drummond, Falkirk, and thereafter filled situations in Edinburgh before leaving the retail trade to take up teaching, his first experience of which was gained under Mr. W. Duncan in Edinburgh. He passed the Minor in 1909, and the Major a year later, after which he went to Glasgow as assistant to Mr. Lothian. Mr. Irvine is an enthusiastic botanist.

FRENCH NEWS.

(From the "C. & D." Paris Correspondent.)

MONSIEUR MASSON, whose death was recently announced, occupied the highest pharmaceutical grade in the French army, that of inspector, a rank equivalent to brigadier-general. To this post he was promoted in August 1906, succeeding the late M. Burcker. M. Masson was a member of the Technical Sanitary Committee and manager of the Central Sanitary Service. He was a Commander of the Legion of Honour, and was sixty-five years of age.

THE VIRTUES OF POTATOES.—"Dr. B." pronounces (in the medical page of the "Journal") a panegyric of the potato not unworthy of Parmentier himself. The daily consumption of the homely tuber is, he asserts, the best preventive and curative of the gout. Its diuretic effects are too well known to need repetition, and its juice is recommended for dropsy and swelling of the legs which accompany heart-disease. The secret of the value of potato-juice is, he states, the percentage of potash salts which is present.

BRITISH AND FRENCH ASSOCIATIONS.—In connection with the meeting of the French Association at Havre on July 27 to August 2 (see *C. & D.*, July 11, p. 38) the Havre Pharmacists' Association has issued a circular regarding the Section of Pharmacological Sciences, the President of which (Professor Delepine) in his letter, and referring to the visit of members of the British Association, says: "I am convinced that you will wish to see our English *confrères* take back from their visit the impression that French pharmacists are worthy of their glorious past."

PHARMACY-LAW PROSECUTION.—The Douai correspondent of the "Petit Journal" reports the decision in the case between M. Waestelant, pharmacist, and M. Duval, herbalist, both residents at Loos-lez-Lille. In March last, the pharmacist sent a little girl to the herbalist to purchase some small quantities of sedative-water, boracic acid, and Epsom salt. As the herbalists have no right to sell these products, of which alone the pharmacists have the monopoly of sale, M. Waestelant made the delivery of these products the ground for an action against the herbalist, from whom he claimed damages for loss of profits. The Douai Court of Appeal has acquitted the herbalist, and held that the pharmacist had undergone no loss, as the products were not required for the use of a sick person.

AN ASSISTANT'S REVENGE.—M. Saint-Martin, a retired pharmacist, of Vic Fezensac, in the South of France, was recently arrested on a charge of having poisoned his first two wives, one in 1900 and the second in 1914, as well as his mother and his child. The proceeding known as "trial by newspaper" has been diligently carried out in the case, various Parisian and provincial newspapers having for several days published lengthy notes and interviews, giving the matter the appearance of a *cause célèbre*. The clearest point seems to be that the pharmacist was arrested on the denunciation of a former assistant, M. Paul Sembres, a man of fifty-five years of age, who lost his situation and was unprovided for when his former employer sold his pharmacy. The present Mme. Saint-Martin, the third wife, energetically proclaims her husband innocent of the crimes imputed to him, and accuses Sembres of having attempted to poison her last summer by an overdose of pyramidon in headache-tablets, and also of having attempted to blackmail M. Saint-Martin before publicly accusing him. Sembres seems to have considerably over-reached himself in a desire for revenge, but for the present the matter remains *sub judice*.

SOUTH AFRICAN NEWS.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is subscribed for and supplied weekly to all the members of the seven Chemists' Societies in British South Africa.

Natal.

MEDICAL AND DENTAL BILL.—With regard to the Medical and Dental Bill now before the Union Parliament, the Natal Pharmaceutical Society has also protested against the exclusion of chemists from the scope of the Bill. It is not expected that this will have much weight with the Government, as the Session is so far advanced, but it is more likely that the Bill will be carried forward to the next Session. This will be more advantageous to chemists than to see it pass in its present state, as it would probably mean several years before the Government attempted a purely chemists' Bill. The introduction of this Bill means that the Government do not intend introducing a Pharmacy and Poisons Bill for some time. It is a peculiar fact (says our Durban correspondent) that the principal objectors to the chemists being included in the Bill were in favour of it at the conference held at Bloemfontein two or three years ago.

O.F.S. Pharmaceutical Society.

THE usual monthly meeting was held on June 9. The minutes of the previous meeting were read and confirmed, as were also the minutes of a special meeting held a few days previously. The special meeting was called for the purpose of protesting against any further taxation as contained in the Income-tax Bill then in Parliament. It was resolved to send a letter to the Minister in charge of the Bill, pointing out the various forms of direct taxation that Free State chemists were called upon to meet. A copy of the letter was sent to the local representative in Parliament and also to several chemists in the country. A letter from the Secretary of "The Friend Sickness Insurance Fund" was read, in which special terms for medicines supplied to members were asked for. After careful consideration, it was decided to fall in with the wishes of the Friend Fund and grant them special terms, subject to alteration on several points of the proposed working of the fund. A special net price-list for dispensing was drawn up to lay before the committee of the fund.

A special meeting was held on June 22 to consider what steps were to be taken in consequence of the elimination of chemists from the Bill, now before the Senate, dealing with doctors and dentists. It having been ascertained that the objectors to the draft Bill were the Medical and Pharmacy Boards of the Cape Province and the Transvaal, the matter was gone into thoroughly. Transvaal objected because no provision was made for reciprocity and uniformity of examination. The Secretary for the Interior assured them that amendments would cover this, and Transvaal withdrew their objections and now desire inclusion. It was decided to send the following telegram to the Minister for the Interior: "Meeting of Pharmaceutical Society Free State unanimously resolved to protest against omission of chemists from Bill. Reciprocity urgently desired. Request inclusion of chemists in Bill in every section, giving identical treatment to chemists as to doctors and dentists." A copy of this telegram was sent to the local member of Parliament and also to the various Societies. A reply has been received from Mr. C. L. Botha, in which he states that General Smuts absolutely refuses to include chemists in the Bill. He states as his reason that the Cape Pharmaceutical Society strongly protests against such reciprocity, because it contends that the qualifications in the different Provinces vary so considerably. An effort was made in the Senate to amend the Bill so as to include chemists, but the amendment was ruled out of order by the Chairman on the ground that it was not covered by the title of the Bill. Mr. Botha has spoken to several members, who have promised to assist in an effort to get the amendment agreed to in the House, but is not at all sanguine of success. The Natal Society is working very hard in the same direction, and so the Cape is left as the unwilling partner, the other three being unanimous. At the present time Colonially qualified chemists are debarred from practising outside the Province in which they obtained their diploma, which is a great hardship on them. The Press in the Free State has taken up the cudgels on behalf of the chemists.

LEGAL REPORTS.

TRADE LAW.

Fertilisers and Feeding-stuffs Act.—At Exmouth (Devon) on July 13, Odams Manure and Chemical Co., Ltd., London, were fined 5*l.*, and costs, for selling superphosphates containing only 28.3 per cent. of soluble phosphate, instead of 35 per cent. as guaranteed.

Unstamped Pills.—At Bow Street Police Court, London, on July 10, Louis Roberts, Villiers Street, Strand, was fined 5*l.*, and 23*s.* costs, for selling a dutiable box of pills unstamped. It was stated for the defence that the business was left to a woman, about four years ago, on the death of her husband. She lived in the country, and quite by an oversight these pills had not been stamped by her representative. There was no intention to defraud.

A Chemist's Business.—In the Bow County Court on July 10, application was made to Judge Smyly, K.C., for the adjournment of the trial of an action until the last day the Court sits before the vacation. The plaintiff is Arthur Wm. Daniels, 46 Upton Lane, Forest Gate, described as a chemist, and the defendant Chas. Willmer, 117 High Street North, East Ham, a drug-store proprietor, the claim being for 100*l.* Mr. A. A. Robinson explained that the case had to do with the sale of a chemist's business, specific performance of an agreement being asked for, and other points arise. Judge Smyly (reading the pleadings): This looks a case that will take considerably over a day to try. Mr. Robinson: I think it is quite likely it will. Judge Smyly: Then it will be adjourned over the vacation.

A Vanload of Syphons.—At the Middlesex County Court on July 14, Camwal, Ltd., Ravenspring Works, Mitcham, were sued by Henry Scarle, of Upper Green, Mitcham, furniture-remover, who claimed 9*l.* 5*s.* damages to a van hired by the defendants. There was a counterclaim of 17*s.* It was stated that on April 3 the defendants hired the van of the plaintiff to take a load—about 2½ tons—of syphons of aërated waters in crates, defendants' own man being in charge. When the van and load arrived at South Lambeth Road the off hind wheel collapsed and spilt the load in the road. It was suggested for the plaintiff that the wheel had a wrench in the tram-lines; and, on the other hand, it was stated that the stock of the wheel, which was an old one (at all events the wood was short), had broken and collapsed, and caused the spill. His Honour, in giving judgment for the defendants, held that the stock of the wheel was defective, and that there was no negligence on the part of the defendants' people.

Assistants' Right to Copy Formulæ.—At the West London Police Court last week, William Evans, a dispenser, St. Maur Road, Fulham, was summoned for alleged illegal detention of certain formulæ and prescriptions relating to the making-up of medicinal preparations, the property of Spiers & Pond, Ltd., New Bridge Street, E.C. Mr. Hedderwick, who supported the summons, stated that the defendant used to be in Messrs. Spiers & Pond's service, and he had entered certain prescriptions in a book. When he left the firm's service he took the book away with him. The Magistrate (Mr. Garrett): Surely he had the right to take notes of the prescriptions? Mr. Hedderwick: The book should have been left at the dispensary. The defendant protested that the prescriptions were his own; and the Magistrate pointed out that, unless Mr. Hedderwick could prove that the book belonged to Spiers & Pond, they could not claim it. As this proof was not forthcoming, the Magistrate advised that the summons should be withdrawn. This was done. The defendant asked for costs, but his Worship refused to grant costs.

Drying-machinery.—At Manchester Summer Assizes, this week, the Sturtevant Engineering Co., Ltd., London, sued the Clayton Aniline Co., Ltd., manufacturing chemists, Manchester, for 131*l.* 14*s.* 10*d.*, balance of the price of an automatic drying-machine and for services rendered in the erection of the machine. The defendants counterclaimed for 298*l.*, money paid on account, and 40*l.* damages and interest for losses sustained in labour and material in working the machine. The machine was supplied for the purpose of drying crystals of trinitrotoluol, and the defence was that it did not fulfil the requirements of drying 1½ ton of the crystals in twenty-four hours and of removing 20 per cent. of moisture from them, representing a residual moisture in the crystals of 0.02 of 1 per cent. After hearing several witnesses, Mr. Justice Shearman decided that the plaintiffs had failed to prove that the defendants had definitely accepted and exercised dominion over the machine. The plaintiffs, he added, had entered into an improvident contract. They had not fully appreciated the exact meaning of the words used as applied to the subject-

matter, and therefore the action must be dismissed and the defendants must have judgment on the counterclaim for 313*l.* 8*s.* 1*d.*, and costs.

Notice to Assistants.—At Clerkenwell County Court, before Judge Roberts, on July 10, Jesse Griffin, chemist's manager, Hornsey Street, Holloway, claimed 9*l.* 12*s.* damages from George Atkins, 213 Holloway Road, for wrongful dismissal. The plaintiff was formerly manager to the defendant. On returning from his holiday on June 8, defendant told him he had decided to make a change, and offered him a week's wages in lieu of notice. The plaintiff contended that the custom of the trade entitled him to a month's notice or wages in lieu. The defendant, in evidence, deposed that plaintiff had latterly become much addicted to drink, and was too shaky to conduct business on his return from his holiday, and, as a result of inquiries he had made, he resolved to make a change. His Honour, in giving judgment, said he thought it impossible to take the view that plaintiff was an entirely sober man. It did not appear that defendant had seriously cautioned him, nor was it shown that plaintiff's insobriety inflicted any injury on anyone. He could not find that plaintiff had been guilty of misconduct such as to justify his dismissal. On the question of custom, he was not satisfied that the custom as to one month's notice had been proved. He gave judgment for plaintiff for one week's wages (2*l.* 8*s.*), and costs.

Insurance of Nitrate: Sale and Delivery.—In the King's Bench Commercial Court, London, on July 10, Mr. Justice Bailhache had before him an action brought by the Norddeutsche Insurance Co., the Canton Insurance Office, Ltd., and the Reliance Insurance Co., Ltd., against Messrs. W. Montgomery & Co., Ltd., 63 Mark Lane, E.C., claiming to recover money paid under mistake of fact. It appeared that in March 1913 the defendants effected with the plaintiff companies policies of insurance upon a cargo of nitrate of soda from South America to London, and including craft risk. A quantity was purchased by Messrs. Pearce, chemical-manufacturers, and while this was being conveyed on a barge from the vessel to Messrs. Pearce's wharf at Limehouse the bargo sank. Accordingly Messrs. Montgomery made a claim upon the plaintiffs, and were paid 399*l.* and 12*l.* in respect of the loss. The plaintiffs now alleged that the defendants, having sold the goods to Messrs. Pearce, had no insurable interest in them, and they claimed the return of the money paid. Defendants said the claim was properly made, and that the insurable interest remained with them until delivery of the goods. His Lordship held that the defendants had no insurable interest, and gave judgment for the insurance companies for the return of the two amounts, with costs.

High Court Cases.

Unless when otherwise stated these cases have been heard in the High Court of Justice; London.

Use of the Word "Dental" in Company Titles.

In a King's Bench Divisional Court on Tuesday, the Lord Chief Justice and Mr. Justice Darling heard an application by Mr. Grant, K.C., on behalf of the United Dental Service, Ltd., for a rule *nisi* to the Registrar of Joint-stock Companies calling on him to show cause why a mandamus should not issue to compel him to register the name of the United Dental Service, Ltd. Mr. Grant informed the Court that the company was formed with the object of providing dental attendance for poor people. The Registrar took an objection to the name of the company, and would not register the company with the word "dental" in the name.

The Lord Chief Justice: Did he give a reason?

Mr. Grant: As your Lordships are aware the Dentists Act, 1878, has been construed in 1910 by the House of Lords, and it was decided that the words "dentist" and "dental practitioner" are confined to registered dentists, and nobody can use the words if he has not the degree of a qualified dentist. The word "dental," however, has been decided by the House of Lords to be a word of general application which anybody can use. The reason given by the Registrar for refusing to register the company was that the company had not provided in the memorandum that only registered dentists shall do the work.

The Court granted the rule, and said the matter would be argued one day in the last week of July.

Prussiate-of-Potash Contract.

Justices Bankes and Avory, sitting as a Divisional Court of the King's Bench Division on July 10, had before them the reinstated appeal of the defendants against a decision of Judge Smyly, K.C., at the Bow County Court on February 13, in the action of H. D. Pochin & Co., Ltd., Salford, Manchester, against the Crown Chemical-works, Stratford, which related to a dispute over the supply of prussiate of potash. The case was fully reported in the *C. & D.*, 1914, I., 295, 415, 447, and 558. It may be recalled that the plaintiffs wrote to defendants asking for a quotation for prussiate of soda; the defendants replied saying that the price was 4½*d.* per lb., but by a mistake in the letter they put the words "prussiate of potash" instead of soda. The price of the potash salt was 5½*d.* to 5¾*d.* Subsequently they received an order from plaintiffs for 3 tons of the prussiate at that price, and as defendants refused to supply, plaintiffs bought elsewhere at the market price and sued defendants for 39*l.* 4*s.* 10*d.* as damages for breach of contract. Mr. Wallington now addressed the Court for the appellants and Mr. Sandars for the respondents, after which Mr. Justice Bankes said the whole question was as to the construction of the correspondence. The County Court Judge had taken the view that there was an offer by the appellants of 3 tons at a certain price, and that there was an acceptance of that offer, and that under those circumstances there was a binding contract. He did not take that view of the correspondence, and held that the appellants never made an offer to sell 3 tons, and therefore in his opinion there never was a contract. They wrote that their price, if they consented to deliver 3 tons, would not be less than the original price. That was not an offer, it was an inquiry. The appeal was allowed, with costs.

Crookes's Collosols.

Mr. Verey, one of the High Court Official Referees, commenced on Thursday, July 9, the hearing of a claim for damages of 30,000*l.* for breach of contract by the defendant in the action of Stroud *v.* Govett, wherein Mr. Lewis Stroud, solicitor and scientist, Bank Chambers, Holborn, claimed from Mr. Ernest Govett, company promoter, a declaration that two letters constituted a valid contract, and damages for breach of that contract. The alleged contract was to float a company to acquire the patent rights in "Collosols," but the defendant repudiated the contract.

The Referee pointed out that in the action in Chancery two letters which had passed between the parties had been held to constitute a contract, and that the defendant was liable for breach of that contract.

Mr. J. B. Mathews, K.C., for the plaintiff, stated that the invention was that of Sir Jas. Dewar and Sir Wm. Crookes, who had a laboratory for the purpose of experiments. Mr. Henry Crookes, son of Sir William, was really the inventor of the thing, but it was perfected, after many experiments, in conjunction with Sir Wm. Crookes and Sir Jas. Dewar. The patent-rights had been the subject of litigation between Sir Jas. Dewar and Sir Wm. Crookes and Mr. Stroud. Sir Jas. Dewar in November 1912 issued a writ against Mr. Lewis Stroud, Mr. Crookes, and Sir Wm. Crookes to establish the fact that any invention perfected in the laboratory of Sir Wm. Crookes was the property of himself and Sir Wm. Crookes. While the action was pending the contract between Mr. Stroud and the other defendants in the action was entered into. A small private syndicate was formed, but it claimed no right to the invention from the commercial side, and was established to acquire the medical rights only. The defendant having heard of the invention, and being impressed by its merits, desired to promote a company to put it on the market. He agreed to buy the invention, known as Crookes's collosols, at the price of 18,000*l.* in cash and 45,000*l.* in 1*l.* shares in a company with a capital of 100,000*l.*, which he was to register at once. The company was to have a working capital of 22,000*l.*

Mr. Ashton Cross, appearing for the defendant, said that all the Referee had to do was to decide the amount of damages which the plaintiff had sustained by the alleged breach of contract.

Mr. Mathews gave further financial particulars, and proceeded to call evidence to show that the invention had been ruined commercially.

The plaintiff was the first witness, and Mr. Thomas Oliver Kent, laboratory manager to Messrs. Oppenheimer, Son & Co., Ltd., manufacturing chemists, was the second; and after some further evidence the hearing was adjourned until July 20.

STEVENS' "CONSUMPTION-CURE."

The case in which Mr. Charles Henry Stevens is suing the British Medical Association for alleged libel was mentioned to the Lord Chief Justice in the King's Bench Division on July 13. Mr. Colam, K.C., who appeared for the Association, said that having regard to the fact that the officials of the Association and most of the important witnesses will have to attend the annual meeting at Aberdeen on July 27, he asked that the hearing of the action should be postponed until next sittings.

Mr. Stevens, who appeared in person, objected to the postponement. He was quite ready to go on, he said.

The Lord Chief Justice said he was unwilling to postpone the case, seeing that the action was ready for trial. The case would be put in the list for Wednesday or Thursday, when Mr. Justice Shearman would be able to deal with it.

Mr. Justice Shearman and a special jury began the hearing of the case on July 15. It will be remembered that it was also heard in October last, and fully reported in the *C. & D.* at the time. The plaintiff, Charles Henry Stevens, of Wimbledon, claimed to have discovered in South Africa a positive cure for consumption, which contained two herbs called umckaloabo and chijitse, and he complained that in "Secret Remedies" it was stated no such names were to be found in a reference-book on pharmacy, and that what the medicine contained was alcohol, glycerin, and solid substances which agreed in all respects with the solids of krameria with a little kino added. The statement complained of added that the formula for the plaintiff's mixture appeared to be:

Rectified spirit of wine	23.7 parts
Glycerin	1.8 part
Decoction of krameria (1 in 3) to	100 parts

Or it might be made with tincture of krameria.

Estimated cost of ingredients for 2¼ fl. oz., 1½*d.*

The plaintiff now conducted his case in person, and in the course of his address to the jury read chapter 3 of "Secret Remedies," in which the libel is alleged to be contained. Publication was admitted, and he left the defendants to justify what they had written, thus reserving the right to call rebutting evidence.

Mr. Colam then addressed the Court, and in the course of his speech said: Mr. Stevens' remedy undoubtedly relieved the pressure of the cough and gave a feeling of comfort. Being of a sanguine temperament the patient thought that it was the medicine that was doing him good. But that did not mean that the remedy was a cure for consumption.

Mr. Justice Shearman: It is a nice point; but as the pleading stands I think on the recent decisions this is a defence of fair comment. That is my present view. This case has been opened on the footing that the defence is justification. If you wish to justify, Mr. Colam, would it not be better to amend the pleading?

Mr. Colam: I do not want to go beyond what we have pleaded.

His Lordship: You do not want to amend?

Mr. Colam: No, my Lord.

His Lordship: Then my ruling is that this is a defence of fair comment. You will remember that you have had an opportunity of pleading justification and that you have declined to do so.

Mr. Colam then continued his speech, after which Mr. E. F. Harrison, B.Sc., Ph.C., F.I.C., who made the analysis for the British Medical Association, gave evidence substantially as in October last, and in cross-examination by the plaintiff said he could not swear whether there was any krameria or tincture of krameria or kino in the medicine.

Among the witnesses on Thursday was Mr. C. E. Sage, Ph.C., F.I.C., who deposed that he did not discover that the mixture contained either krameria or kino, nor any active principle except tannin. Dr. Frank L. Teed also gave evidence in support of Mr. Harrison's analysis.

BENDLE'S MEAT-PORT NUTRIENT.

On July 13 Mr. Justice Bray sat in the King's Bench Division to hear the speeches of Mr. Gordon Hewart, K.C. (for the defendants), and Sir Frederick Low, K.C. (for the plaintiffs), in summary of the evidence in the case in which Sutton Bendle & Co., Sloane Street, W., proprietors of "Bendle's Meat-Port Nutrient," proceeded against the United Kingdom Alliance, of Manchester, and Mr. Bertram Fox, the Hull Secretary, to recover damages for alleged libel. After hearing the speeches his Lordship reserved judgment.

His Lordship read a written judgment on Tuesday, July 14, in favour of the plaintiffs. In the course of it he said:

He had to act as Judge and jury in this case; he had to decide if the words were capable of bearing a defamatory meaning, and whether in fact they were defamatory. It was necessary for the plaintiffs to establish, before he could find that they were defamatory, that it was intended to bring (to the mind of the ordinary reader) the plaintiffs into contempt or injure their character, to impute dishonesty to the plaintiffs or incapacity in the conduct of their business. The view had been expressed by Mr. Wilson in his evidence for the Alliance that this was practically a charge of fraud The claim of the makers of the wine was that it was a "really genuine nutritive meat-wine," but a controversy had arisen in respect to the word "nutritive" or its allied term "nutrient." Unless it was proved that these words had a special or technical meaning, he had to take them in their ordinary and natural meaning. The view had been expressed by witnesses for the defence that a substance to be rightly called a "nutritive" must be capable of being used as an exclusive food, and this was put forward as being the natural interpretation of the term. The plaintiffs' witnesses disputed this, and said that a substance was nutritive when, taken with or without other food, it helped to build up the human frame or repair the waste tissues. He could not accept the evidence of the defendants on this point, and he could not say that the word "nutritive" had any technical meaning; but whether it had or not, he found that such meaning agreed with its natural meaning, and was substantially that which the plaintiffs' witnesses gave. He had to consider whether the statement that this was a genuine nutritive meat-wine was "positively absurd." To the wine was added a certain amount of somatose, and he had heard a great deal of evidence about somatose, and the conclusion he had come to, after very careful consideration, was that somatose was, in the words of the report of Dr. Stevenson and Dr. Luff, published in "The Lancet," September 1899, "A meat nutrient possessing restorative and regenerative powers." He could not find that the nutritive value of the somatose was diminished by the solution in the wine. It was said that in the proportion in which it was used the nutritive value was so small as to be scarcely appreciable. If it had been said that Bendle's meat-port nutrient was a highly nutritive wine, he did not think he would find that to be correct; but they did not say that. The words "really genuine nutritive" did not mean "highly nutritive." He thought the plaintiffs' wine had the percentage of nutritive value that was claimed for it; it was not a large amount, but it was a real and substantial amount. It was said that by using the words "equivalent to fresh lean beef" it was represented that the wine contained the elements of meat, but on that point he accepted Dr. Hartley's statement (a witness for the defendants) that, having seen that label, he would not have expected to find all the constituents of meat. He thought that what was contained on the labels was true, and that the defendants had not proved that what the makers claimed was "positively absurd," and he did not think that the defendants had proved that any of the representations made by the plaintiffs on their labels, cards, or advertisements were incorrect. There had been a controversy as to the meaning of the term "meat extract." In one sense anything extracted from meat was a meat extract, but it seemed to him that as used by doctors it had a more restricted meaning, and meant something containing very small nutritive value. He thought that somatose was not a meat extract truly so-called, and that it contained a substantially higher nutritive value than meat extract. He thought it was misleading to put in the analysis that the wine contained "meat extract 2.5 parts in 100 fluid parts." He thought the insertion of the subsequent articles in the "British Medical Journal" was intended to remove a misapprehension that would have been created by the original article, but he did not think that the sting of the pamphlet lay in the use of the words "meat extract." The only question remaining was that of damages. The libel was a serious one, and 60,000 copies of the pamphlet had been issued, and they had been

distributed after the defendants became aware of the plaintiffs' objection, and after they became aware of the "British Medical Journal's" corrections. The defendants had persisted in justifying the serious charges that they had made, but it was fair to say they had not published the libel again. Their object was a good one—viz., to promote temperance—but unfortunately they had agents who were too zealous, too careless, and, he thought, reckless. He thought the justice of the case would be met by an award of 250*l.* damages to the plaintiffs, and he gave judgment for them accordingly, with costs.

On the application of Mr. Gordon Hewart, K.C. (for the defendants), a stay of execution was granted, the notice of appeal to be entered in fourteen days, the money to be paid into court, and the costs on the solicitors undertaking to return them in the event of the appeal succeeding.

Poisons and Pharmacy Acts.

THE CARDIFF CASES.

As briefly reported in our issue of July 11, p. 41, at the Cardiff County Court on July 9, before Judge Hill Kelly, the Pharmaceutical Society of Great Britain brought an action against Gwilym Evans, Ltd., Cardiff, to recover the amount of penalty incurred by the defendants on May 28, 1914, at 158 City Road, Cardiff, by keeping open shop for the retailing or dispensing of poison, contrary to the provisions of the Pharmacy Act, 1868, as amended by the Poisons and Pharmacy Act, 1908. A like claim was made against Victor Evans in respect of the sale at 158 City Road, he not being a registered chemist.

William Thomas Harris, a private inquiry agent, proved purchases at the shop on May 28, when he was served by Victor Evans, a boy of sixteen. There was a certificate exhibited in the name of Mr. John Robb. Witness afterwards went to the shop in Salisbury Road, and there saw Mr. Robb. On the same date he went to the shop at No. 10 Caroline Street and asked to be served with Harrison's Nursery Pomade. He could not get it, and ultimately was persuaded to accept Nurse Parish's Pomade on May 29, the assistant having told him he could obtain the article he asked for from one of the other shops.

Mr. Harry Moon, Deputy Registrar of the Pharmaceutical Society, produced the chemists' register, on which the name of Victor Evans did not appear, but that of Mr. Robb did.

Mr. John Robb also gave evidence, and at the outset asked at whose instigation the proceedings were instituted. His Honour remarked that that was nothing to do with Mr. Robb, and he was only present as a witness. Having taken the oath, Mr. Robb stated that he was superintendent for the company at the City Road shop, and he occasionally visited Salisbury Road, so that he was absent at times, and also when he was relieved for meals. He denied the sale of Harrison's Pomade at the City Road shop, because, he stated, there was none in stock. There were three registered chemists in the business—Mr. Owen, Mr. Denis, and himself. Mr. Denis, however, left on May 29.

Mr. Owen Meredith Owen admitted selling Nurse Parish's Pomade to Harris, and he tried to get the other article from the City Road shop but failed, as they had not got it in stock. He (Mr. Owen) was a qualified man, and his certificate was pinned on the counter.

Victor Evans denied the sale to Harris.

His Honour gave judgment against the company for 5*l.*, and also against Victor Evans for 5*l.* In the case of the Caroline Street shop, the sale was effected by a qualified man, whose certificate was produced. Whether it was conspicuously exhibited was a question of degree. He would therefore give the defendant company the benefit of the doubt in that case.

LIMITED COMPANIES.

New Companies Registered.

P.C. means Private Company and R.O. Registered Office.

PERCIVAL & FISHER, LTD. (P.C.).—Capital 500*l.* Objects: To carry on the business of manufacturers of and dealers in artificial teeth, etc. The first directors are W. Percival and F. W. Fisher. R.O., 47 Strand, W.C.

GEORGE H. BAKER (BURWELL), LTD. (P.C.).—Capital 3,000*l.* Objects: To take over the business carried on at North Street, Burwell, Cambs, as "George H. Baker," and to carry on the business of, *inter alios*, drapers and chemists.

LIEUT.-COLONEL PITCHFORD'S NUTRESCO, LTD. (P.C.).—Capital 126,250*l.* Objects: To take over from Colonel W. Pitchford, G. D. Alexander, W. Fowles, W. Greenacre, and Dr. H. Balfour (trading as the Natal Nutresco Syndicate, King Street, Pietermaritzburg, Natal) the benefit of certain existing patents and inventions relating to a scientific process of artificial pre-digestion and an improved hydrolysing process of digestion, including the patent foods "Carneseo," "Vineseo," "Maltesco," "Pulveseo," and "Boveseo," and to carry on the business of manufacturers of and dealers in all kinds of provisions and foods. R.O., Brownlow House, 50 and 51 High Holborn, W.C.

Company News.

ODAMS' MANURE AND CHEMICAL CO., LTD.—In the Chancery Division on July 14, Mr. Justice Astbury sanctioned a reduction of capital of this company from 150,000*l.* to 105,000*l.* by cancelling 3*l.* of each 10*l.* share.

PINOXIC SYNDICATE (1912), LTD.—In the Companies (Winding-up) Court, in the Chancery Division, on July 14, Mr. Justice Astbury dismissed a petition presented by Mr. A. H. Myers for compulsory winding-up, on the company's undertaking to pay 50*l.* odd into a joint account, and the petitioner to proceed with his action against the syndicate for arrears of salary.

THE DISPENSARY (PENANG, LTD.).—The annual report for the year ended December 31, 1913, states that the net profits were $4,800.34, this decrease being partly attributable to a decrease in sales and partly to errors and omissions in the previous year's stock-sheet. To the above profit is added a balance of $369.69 brought forward, making $5,170.03 to be distributed as follows: Dividend of 5 per cent., $3,250; directors' remuneration, $500; balance carried forward, $1,420. At the meeting held on June 10 the report and accounts were adopted.

NAHOR WITHNALL & CO., LTD.—A meeting of the creditors of this company of wholesale chemists, carrying on business at Moss Lane West, 36 Upper Jackson Street, and 39 Barlow Moor Road, Manchester, was held at Manchester on July 10, when the chair was occupied by the representative of Jas. Woolley, Sons & Co., Ltd. According to the statement of affairs prepared, the liabilities amounted to 1,114*l.* 17*s.* 10*d.*, and assets estimated to realise 844*l.*, the estate disclosing a deficiency of 270*l.* 17*s.* 10*d.* Included in the liabilities was 745*l.* for loans to the company. It was reported that the company was formed in 1894, with a capital of 2,000*l.*, but a profit had never been made. On several occasions proceedings had been taken against the company, and in June last a liquidator was appointed. It was resolved that application should be made to the Court to appoint Mr. Eaves, of Messrs. H. L. Price & Co., as liquidator in the place of Mr. Withnall, and a committee of inspection was also elected. The following are creditors: Harker, Stagg & Morgan, Ltd. (81*l.*); Jas. Woolley, Sons & Co., Ltd. (23*l.*); D. & W. Gibbs, Ltd. (14*l.*); Blyton, Astley & Co. (11*l.*); Lorimer-Marshall, Ltd. (7*l.*); Grossmith & Co. (11*l.*); W. Mather & Co. (10*l.*).

GAZETTE.

Partnerships Dissolved.

RITCHIE, W., and WIGGINS, B., Hoyland and Hoyland Common, near Barnsley, physicians and surgeons, under the style of Drs. Ritchie & Wiggins.

ROBERTS, E., and ROBERTS, T. H. F., Peckham Rye, East Dulwich Grove, and Eynella Road, Dulwich, physicians and surgeons, under the style of Roberts & Roberts.

The Bankruptcy Acts.

RECEIVING ORDERS.

CROOKSHANK, F. G., Wimpole Street, London, consulting physician.

SMITH, H. A., Boundary Road, Leicester, manufacturing chemist.

ADJUDICATION.

STOKES, H. F., Highbury Place, London, doctor of medicine.

THE OPIUM CONVENTION.—The full text of the Opium Convention, bearing the signature of Queen Wilhelmina, is published (in French) in the official "Nederlandsche Staatscourant" of July 7. It is substantially the same as published in our issue of February 3, 1912 (p. 51).

BIRTHS.

Authenticated notices are inserted without charge.

Bennett.—At Staniford, Weybridge, on July 14, the wife of F. J. R. Bennett (Evans Sons Lescher & Webb, Ltd.), of a daughter.

Fenton.—At the Ore Pharmacy, Cardenden, Fife, on July 9, the wife of Peter Fenton, chemist and druggist (late of the Glasgow School of Pharmacy), of a daughter.

Wren.—At Crafnant, Hildville Drive, Westcliff-on-Sea, the wife of Richard W. Wren, chemist and druggist, of a son.

MARRIAGES.

Authenticated notices are inserted without charge.

Franklin—Brown.—Before the Registrar, Mr. H. E. Grist, at Kennington, London, S.E., on July 11, Jesse E. Franklin, of Messrs. H. Cooper & Co., Ltd., to Ellen Constance Brown, of the National Blind Association, Great Portland Street, London, W.

Guiler—McMullin.—At Kildonan West, Manitoba, on June 16, John Herbert, second son of Mr. James Guiler, Ph.C., Ormeau Road, Belfast, to Grace, eldest daughter of Mr. J. McMullin, late of Belfast.

Hamilton—McMillan.—At the Station Hotel, Ayr, by the Rev. Oswald B. Milligan, B.D., St. Leonard's Parish Church, on July 8, William Smith Hamilton, M.A., to Annabella Gerand McMillan, M.A., eldest daughter of Mr. James M. McMillan, chemist and druggist, Ayr.

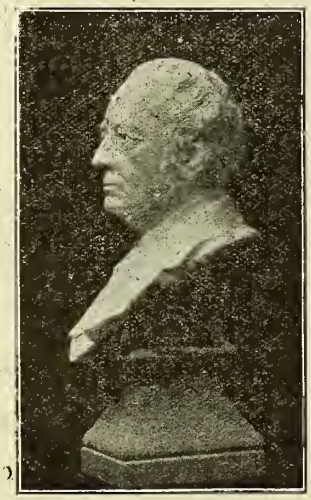
McKinney—Rees.—At St. John the Evangelist, Brixton, by the Rev. Leopold Reiss, on July 9, David Orr McKinney, Ph.C., elder son of Mr. S. McKinney, Cookstown, co. Tyrone, to Kathleen Eleanor, elder daughter of Mr. Griffith Rees, Brixton, London.

Phillips—Shawyer.—At the Baptist Tabernacle, Swindon, on July 8, Mr. S. John Phillips, Northleach (Glos), to Ruth Emily, second daughter of Mr. J. J. Shawyer, J.P., chemist and druggist, of Wood Street, and Faringdon Street, Swindon, Deputy-Mayor of the borough.

DEATHS.

Authenticated notices are inserted without charge.

Drane.—At 16 Queen Street, Cardiff, on July 14, Mr. Robert Drane, chemist, aged eighty-one. Mr. Drane was one of the best known members of the drug-trade in South Wales, and was also equally well known to a wider circle as an archæologist. He was born at Guestwick, Norfolk, and apprenticed in the 'forties, paying a premium of 100*l*. Some years ago in an address to the local Association he told of the meagre provision that was made for imparting instruction to himself and his fellow apprentices. The London Pharmacopœia and Gray's "Supplement" were the text-books, and something like a storm was caused among the senior partners of the firm when the junior partner sanctioned the purchase of Fowne's "Manual," Bowman's "Chemistry," and Balfour's "Botany." At the conclusion of his four years' apprenticeship Mr. Drane obtained a situation in London with Messrs. Allen & Hanburys, Plough Court. He left there owing to a difference in views regarding theatre-going, and became an assistant to Mr. Griffith Phillips, Duke Street, Cardiff, afterwards starting in business for himself in Bute Street, Cardiff, in 1858, but finding that he was mistaken in believing that street to be the principal street of the town, he moved in 1868 to Queen Street, where he remained for the rest of his life, taking even to the last few months a lively interest in the conduct of the business. The shop and house at Queen Street was built to his own design. His services to local archæology and to the Cardiff Library and Museum were very considerable. Last year he completed fifty years service as a member of the Cardiff Library Committee, and he has enriched the Cardiff Museum with many valuable curiosities of local interest. He was a founder of the Cardiff Naturalists' Society. His bust presented to him by his friends was exhibited in the Royal Academy in 1911. This bust, which conveys very faithfully the facial characteristics of this remarkable man, was executed by Mr. Leonard S. Merrifield. Among his *confrères*, Mr. Drane was always regarded with some reserve on account of his somewhat cynical outlook on business affairs, but his comments on drug matters, often extremely caustic, were never ill-natured, and it was on this account that he commanded the respect of all with whom he came in contact. His collection of china is of great value, and he collected also pottery, silver ware, English needlework, and religious emblematic figures. Mr. Drane is to be buried in Norfolk.



Mr. Robert Drane.

Aitken.—At 4 Bridlington Road, Duffield, E. Yorks, on July 12, Ada Juanita, wife of Mr. W. P. Aitken, chemist and druggist (late of Markinch, Fife), aged thirty-nine.

Payne.—At Brighton, on July 10, Mrs. J. C. C. Payne, widow of Mr. J. C. C. Payne, Ph.C., Bradbury Place, Belfast, who was President of the Pharmaceutical Conference some years ago. Mrs. Payne was on a visit to friends when she passed away. She was an active member of Belfast Board of Guardians for many years, and a prominent worker on behalf of the National Society for the Prevention of Cruelty to Children. Her remains reached Belfast on July 14, and were interred in Milltown Cemetery.

Sellars.—At Mavesyn, Fairfield, on July 11, Caroline Frances, eldest and only surviving daughter of the late Mr. John Sellars, manufacturing chemist, Fairfield (formerly of Manchester and Newton Heath), aged seventy-eight.

Thurston.—At Newent, Gloucestershire, on July 12, suddenly, Kate Mary, wife of Mr. C. Thurston, managing director of the Newent Drug Co., Ltd., aged sixty-one.

Turney.—At St. Bartholomew's Hospital, on July 4, Mr. Herbert B. Turney, chemist and druggist, Edenbridge, Kent, aged forty-seven.

Van Oppen.—At Clapton, on July 13, Mr. Claud Van Oppen, Basinghall Street, E.C., son of the late Mr. F. W. Van Oppen, aged forty-two.

Westland.—At 3 London Road, Mitcham, Surrey, on July 13, Ada, wife of Mr. Robert Westland, chemist and druggist, aged thirty-nine. Mrs. Westland had been in indifferent health for some time, but her death was quite unexpected.

Williams.—At Northleach, Gloucestershire, on July 14, Mr. Leonard Augustus Williams, chemist and druggist, John Street, Porthcawl, aged forty-two. Mr. Williams was killed through the overturning of his motor-car while rounding a sweep of the road at Sherborne Park. He was born at Bettws and passed the Minor in 1893. He was ex-Chairman of the Porthcawl Urban District Council.

Medical Discoveries.—Medicine learned from a monk how to use antimony, from a Jesuit how to cure agues, from a soldier how to treat gout, from a sailor how to keep off scurvy, from a postmaster how to sound the Eustachian tube, from a dairy-maid how to prevent small-pox, and from an old market-woman how to catch the itch insect. It borrowed acupuncture and the moxa from the Japanese heathen, and was taught the use of lobelia by the American savage.—*Oliver Wendell Holmes.*

Society of Chemical Industry.

Annual Meeting.

THE annual meeting was held at the University College, Nottingham, on July 15. A Council-meeting had been held prior to the meeting, but punctually at 10.30 the President (Dr. Rudolph Messel) opened the proceedings of the annual meeting. He was supported on his right by the President-Elect, Professor Henderson, Glasgow, and on his left sat Mr. Thomas Tyrer (the Treasurer). Among others on the platform were Sir John Turner (Chairman of the local Section), Mr. W. F. Reid, Mr. Eustace Cary, and Mr. N. H. Martin (Newcastle - upon-Tyne). The Mayor of Nottingham was present to welcome the Society, and Dr. Messel, in responding, claimed that England had woke up in response to the historic command of our present King when Prince of Wales. He pointed out that in Great Britain manufacturers are handicapped in the modern heavy chemical industry of nitrogen by want of water power and also by heavy labour costs.

DR. R. MESSEL, F.R.S.

REPORT OF COUNCIL.

Mr. C. G. Cresswell (Secretary) read the report of the Council, which stated that the number of members now on the register is 4,142, as compared with 4,244 last year. Reference was made to the losses by death and to the changes in the Chairmen of local Sections.

The Society's medal has been awarded to Sir Henry Roscoe, LL.D., F.R.S., for his services to science, education, and the Society. At the close of last year, the President, Sir William Crookes, was elected President of the Royal Society, and consequently relinquished his office in this Society. Dr. Rudolph Messel, who had but recently resumed his former post of Hon. Foreign Secretary on the death of Dr. Lewkowitsch, consented to be nominated President for the remainder of the term, and the Society is indebted to him for his aid in this emergency. Sir William Crookes continues to take the closest interest in the Society's affairs, and now becomes a Vice-President. Dr. Messel, who represents the Society on the governing body of the Imperial College of Science and Technology, has been instrumental in securing the establishment of full Professorships both for Organic and for Physical Chemistry. He also strongly supports the movement in favour of the complete independence of the College. The Council has accepted an invitation to hold the next annual general meeting of the Society in Manchester in September 1915, at the same time as the British Association. The Council nominated delegates to take part in a deputation to the President of the Board of Trade with regard to amendment of the Patents Act. Steps are being taken to consider proposals for adding to the scientific value of the annual meetings, and a Committee has been appointed to report to the Council on means for increasing the membership and usefulness of the Society.

The President mentioned that Mr. Watson-Smith, the Editor of the Society's "Journal," is about to retire from that position.

ANNUAL ACCOUNTS.

The Hon. Treasurer (Mr. Thos. Tyrer) then submitted the income and expenditure account and the balance-sheet for the year ended December 31, 1913. The total income during 1912 was 7,121*l.* 2*s.* 2*d.*, made up of entrance fees 197*l.* 8*s.*; life composition fees 76*l.* 5*s.*; annual subscriptions, 4,993*l.* 19*s.*; "Journal" advertisements and sales, 1,190*l.* 5*s.*; index sales, 4*l.* 13*s.*; dividends and interest on investments, 659*l.* 2*s.* 2*d.* The income exceeded the expenditure by 1,285*l.* 3*s.* 11*d.*, the chief items on the expenditure side being: "Journal," 4,128*l.* 7*s.* 3*d.*; sectional expenses, 490*l.* 0*s.* 11*d.*; annual meeting expenses 165*l.* 6*s.* 10*d.*; working expenses 1,052*l.* 3*s.* 3*d.* The balance-sheet shows that the Society's investments at cost are 19,648*l.* 17*s.* 1*d.* (market value 17,349*l.* 18*s.* 5*d.*), that cash at bank and in hand is 980*l.* 10*s.* 7*d.*, sundry debtors 494*l.* 6*s.* 10*d.*, and arrears of subscriptions 36*l.* 5*s.*

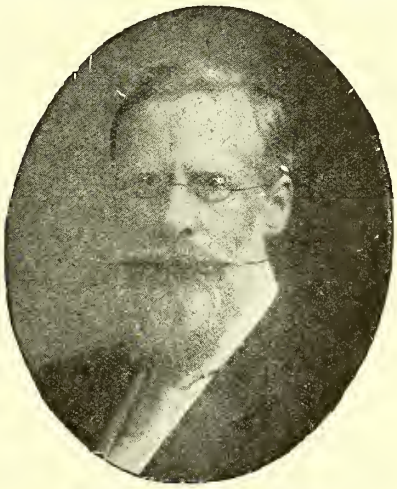
Mr. Tyrer referred to the shrinkage of gilt-edged securities, and said that although the past year had been only an average one, next year promised to be a notable one.

Mr. W. F. Reid proposed a vote of thanks to Mr. Tyrer, and Mr. N. H. Martin, in seconding, said that Mr. Tyrer is the greatest friend and benefactor the Society has.

The outstanding feature of the annual meeting was the disappointment at the enforced absence through indisposition of Sir Henry Roscoe and Sir William Crookes. Sir William had hoped to go to Nottingham up to the last moment, but his health did not permit it. The address he had prepared was read by Dr. Messel.

PRESIDENT'S ADDRESS.

Sir William Crookes' Presidential address began by explaining the circumstances which had led to his resignation of the office of President, and paid a tribute to the wide knowledge of Dr. Messel, who took on the duties. Technical chemistry makes great strides. The past year has seen the publication of results which, although perhaps not sensational enough to stir public imagination, nor intrinsically important enough to be described as epoch-making, are a sufficient tribute to the steady industry of investigators, to their resource in overcoming difficulties, and their acumen in elucidating the casual relations of some particularly interesting phenomena.



SIR W. CROOKES, O.M., P.R.S.

SYNTHETIC AMMONIA.

Foremost must be mentioned Haber's process for the production of ammonia. Ammonium sulphate is now synthetised by the Badische Company, which is about to enlarge its plant by the end of 1915 to a capacity of 130,000 tons per annum. The catalyst osmium has been replaced, first by uranium, later on by Fe_2O_3. The investigation of the process has shown that the latter catalyst is made more active by the addition of certain substances—*e.g.*, oxides, hydroxides, and salts of alkali metals—while other substances, such as arsenic, act as specific poisons towards ammonia catalysts. The demand for nitrogenous fertilisers steadily advances. There is also an increasing demand for nitrogenous products for industrial purposes, concentrated nitric acid being one of the most important of these products. The Norwegian Hydro-electric Nitrogen Company, Ltd., among others, have worked out a simple method of obtaining dilute nitric acid by the oxidation of atmospheric nitrogen,

and then concentrating the dilute acid by making use of the hot gases of the furnaces. The concentrated acid can thus be very cheaply obtained. The Norwegian company find that the pure acid can be transported in aluminium tanks. A steamer equipped with aluminium tanks for 40 tons is already in regular service between Notodden and Eugene on the Christianiafiord, and designs are in progress for 600 to 700 ton tank-steamers for regular service to England and the Continent. The output of the company's works at Rjukau and Notodden has now reached 80,000 to 90,000 tons of nitrate of lime, 10,000 tons of nitrite of soda, 5,000 to 6,000 tons of refined nitrate of soda, and 15,000 tons of nitrate of ammonia.

SOIL-STERILISATION.

The work of Dr. E. J. Russell and others on the action of antiseptics on soil in increasing the growth of crops has led to deeply important results. The anomalous effects of the partial sterilisation of the soil in causing first a fall and then a rapid rise in the number of bacteria, were first observed. Further study showed that the increased productiveness of partially sterilised soil is due to the increased production of ammonia, and that the increase in bacteria is the result of an improvement of the soil as a medium for bacterial growth. From the experiments Dr. Russell concludes that ordinary soil contains a factor which limits the bacterial population and prevents its reaching its maximum. The search for this soil organism revealed the presence of many protozoa, now being examined from a zoological point of view. The fact that the detrimental organisms are more easily killed than the useful organisms explains many paradoxical results—such as the ultimately beneficial influence on productiveness of long-continued frosts and droughts, which are harmful to organisms. The "sickness" of greenhouse soil has been investigated; it is found that it may be ascribed to two causes—an accumulation of pests and an abnormal development of factors detrimental to bacteria. Methods are now in progress for the partial sterilisation of the soil on a large scale. The action of different antiseptics has been studied, and interesting conclusions have been drawn from the work. It is found that there is a decided difference in the action of different antiseptics; only actual trial will decide which may be best in special cases. Generally speaking, formaldehyde and pyridine are the most useful for sick soils; cresol, phenyl, etc., coming next, while the higher homologues of benzene are the least effective. None of these, however, answers as well as steam—the most efficient of all sterilisers.

SULPHUR PROBLEMS.

Reference was made to the work of Frasch, which successfully solved the problem of the extraction of sulphur from the deeply buried deposits of Louisiana. Frasch conceived the idea of melting the deposit *in situ* by means of superheated steam, and forcing the molten sulphur to the earth's surface through an inner tube. The process has worked satisfactorily, and large quantities of sulphur are thus extracted. An interesting modern process is that of the late Dr. Walther Feld, relating to the preparation of ammonium sulphate direct from crude coal-gas. Using ammonium polythionate, ultimately obtaining ammonium sulphate, sulphur, and sulphurous acid; the two latter are again utilised in the process, while the ammonium sulphate is obtained by evaporating the solution. Another method of fixing nitrogen by utilising the sulphur of coal is that of K. Burkheiser. In this process bog iron ore is used to absorb the sulphuretted hydrogen, and the sulphurous acid produced from it is used for the formation of a mixture of ammonium sulphate and sulphite. The process is working at Flemalle Grande, near Liège, in Belgium, and is giving satisfactory results.

SYNTHETIC RUBBER.

Recent work on the synthesis of rubber has attracted much attention, and notable advances have been made. Reference was made to Tilden's discovery in 1882 that isoprene is converted into rubber by chemical reagents, and to the discovery simultaneously in 1908 by C. Harries and Dr. Matthews that sodium is an excellent agent for the polymerisation of isoprene. To get cheap fusel oil needed for the method Fernbach worked out a new process of fermentation, starting with starch. Holt has recently made some valuable discoveries relating to the manufacture of isoprene from the fraction of petroleum of lowest boiling-point, and the preparation of butadiene from benzene or phenol, tetrahydrobenzene being formed as intermediate product. Fernbach has observed that isoprene when treated with sodium in an atmosphere of carbon dioxide gives quite different products from those obtained by the same action in air. Recent work shows that all synthetic caoutchoucs differ chemically from natural caoutchouc. Physically the vulcanised products from synthetic (isoprene) caoutchouc are equal in quality only to products from medium-grade natural rubbers.

OTHER RECENT INVENTIONS.

Another series of remarkable syntheses is due to Fischer and Freudenberg, who, starting from gallic acid, have succeeded in obtaining lichen constituents and tannins, for which the general name "depside" has been suggested. The process recently patented by Dr. F. Bergius for the preparation of hydrogen and his investigations of the preparation of coal from cellulose at high temperatures and pressures are of deep interest. At high temperatures water acts as a fairly strong acid or base, provided it is kept liquid. In presence of a metal, such as iron, hydrogen is evolved. The gas is obtained in a pure state, and the speed of the reaction is very high. The cost of production is about ½*d.* per cubic metre at atmospheric pressure, and this would be reduced in large plants; it is considerably less than that of the cheapest method now known. Water kept liquid by high pressures acts as an excellent thermostat in consequence of its high specific heat; this fact can be applied in the preparation of coal by the decomposition of cellulose. The product has all the chemical properties of natural coal, though physically it differs from it. If, however, the temperature and pressure during formation is greatly increased a substance is obtained which closely resembles anthracite. The specific gravity increases with the duration of compression and the temperature employed. The use of hydrogen in the hardening of fats has recently found favour. The natural supply of hard fats is absorbed in the manufacture of margarine and other foodstuffs—hence for soap-making and other similar purposes artificially hardened fats are employed. Whale-oil gives a good fat for soap-making when hardened in presence of reduced nickel; the product seems likely to be useful for lubricating and other purposes.

EYE-PRESERVING GLASS.

The address then alluded to such parts of Sir William's own work as may be of interest to industrial chemists. Such are the investigation of the spectrum of silicon in a very pure state, and also the preparation of eye-preserving glass for spectacles. The main object of this last research is to prepare a glass which would cut off those heat-rays from molten glass which are injurious to the eyes of workmen, without obscuring too much light or materially affecting the colours of objects seen through the glasses. The research was afterwards extended to the examination of the screening properties of different glasses for ultra-violet and luminous rays, and many specimens of glasses containing known quantities of pure metallic oxides and earths were prepared in his own laboratory. He succeeded in obtaining a glass which cut off 98 per cent. of the heat-rays, while others, which he has called "Anti-glare Glasses," cut off practically all the ultra-violet and a considerable proportion of the heat-rays. He is now investigating the question of the choice of a glass which will reduce to a minimum the fading and alteration of the colours in water-colour paintings on exposure to sunlight and diffused daylight.

The address concluded by urging the need for further researches to undertake the investigation of the many

secrets of Nature which are lying hidden ready to disclose themselves to the "immortal mind." Scientific research has been and is being starved. It is high time measures should be taken to remedy this state of affairs, which otherwise can only end disastrously for the nation. He suggested the allotment of public moneys to the furtherance of scientific work, the tangible recognition of the services of scientific men, the provision of opportunities for all kinds of investigations of scientific problems without reference to their immediate commercial value—these are the benefits we look for at the hands of Government and of the nation. There are, however, responsibilities and duties in regard to research. The principal qualifications for the workers are confidence, keenness, intrepidity, inspiration. The knowledge that you are well equipped for your work, the belief that your training has been thorough, and that you have made the best possible use of it, should develop in you the self-reliance and boldness indispensable in a scientific scout; other valuable qualities, quickness of eye and mind, and the power of reasoning and expression, can undoubtedly be developed and perfected. And what can be promised as the reward of scientific work?—"Not the reward, the work makes man sublime." Perhaps, after all, only the fight, the struggle, the search—but research, like virtue—

"Desires no isles of the blest, no quiet seats of the just.
To rest in a golden grove, or to bask in a summer sky:
Give her the wages of going on, and not to die."

At the conclusion of the address Dr. Messel pointed out the remarkably keen interest Sir William takes in technical chemistry. It is due to the warnings of Crookes in 1898 that the heavy chemistry of nitrogen owed its inception. Likewise noteworthy is it that as far back as 1892 Crookes demonstrated the fixation of nitrogen by the method subsequently used by Lord Rayleigh in his classic argon research. Crookes's prescience is also notably shown in his attempt to utilise thallium chloride for the commercial production of hydrogen.

Votes of Thanks.

Dr. Messel moved a vote of thanks to Sir William for his address, which was seconded by Professor Henderson, who drew attention to a portion of Crookes's address which Dr. Messel had characteristically omitted. This was a glowing eulogy of the work done by Messel in the contact process for the manufacture of sulphuric acid, for which Dr. Messel was elected a Fellow of the Royal Society.

The vote of thanks was carried with acclamation. Professor Henderson (President-elect) moved a vote of thanks to Dr. Messel, who had, he said, been President practically for three years. This was seconded by Mr. Eustace Carey and carried unanimously. Dr. Messel replied.

The Society's Gold Medal.

A telegram was read from Sir Henry Roscoe preparatory to the presentation of the Society's medal to him. Dr. Messel also read a letter from Sir Henry, and then read the address of congratulation to Sir Henry.

Other Business.

When this was concluded the result of the Council election was announced, and some enthusiasm was shown in the election of Mr. J. T. Wood, a well-known local chemist, as a member of the Council.

Mr. Hübner then invited the Society to hold its annual meeting at Manchester next year, and this was accepted.

Votes of thanks were given to the Governors of the University College for the use of the building for the meeting, and it was also announced that at future annual meetings there would be a scientific programme in addition to the business and social arrangements.

Drugs and Medicines for Beirut.—The imports into Beirut were 5,250 cases in 1913, 4,175 cases in 1912, and 5,500 cases in 1911. Haifa and Tripoli imported 1,681 cases last year, against 1,761 cases in 1912. France was the chief source of supply, Germany, the United Kingdom, and Italy sharing about one-third of the imports. There is a French drug-factory at Beirut.

WESTMINSTER WISDOM.

The Week in Parliament.

Foot-and-Mouth Disease.

Replying to Mr. Charles Bathurst in the House of Commons on Monday, Mr. Runciman, President of the Board of Agriculture, said he is advised that lysol, like many other disinfectants of the same class, is capable of destroying the virus of foot-and-mouth disease, but that disinfectants of that class cannot be relied upon to destroy the spores of anthrax. He is not prepared at present to have hides treated with it prior to exportation to this country.

Mr. C. Bathurst asked whether the right hon. gentleman was able to say whether any disinfectant has ever been discovered which will destroy the spores of anthrax.

Mr. Runciman said he must have notice of the question.

Drug-fund Deficiencies.

In the House of Commons on Monday Mr. Godfrey Locker-Lampson asked whether the Government can now make any announcement in regard to the Insurance Committees which have deficiencies on the Drug Fund in respect of the year ended January 1914; what the approximate amount of the deficiency is in each case; and whether the Government propose to make a grant so that the panel chemists may get paid for the drugs they have supplied on the doctors' orders?—Mr. Wedgwood Benn replied that for the reasons already given in his previous replies he is unable to make any general announcement as to the position in regard to the deficiencies for the year 1913. The rest of the question does not therefore arise.

In the House of Commons on Tuesday, July 14, Mr. Godfrey Locker-Lampson asked whether the Insurance Commissioners have reason to believe that in several areas the amounts of the panel chemists' accounts for drugs supplied in the first quarter of this year are greater than for the corresponding quarter of the previous year; and what action they propose to take so that the chemists may get paid for the drugs they supply on the doctors' orders.—Mr. Wedgwood Benn replied that, as he had stated in previous replies to the hon. member, the Commissioners have been informed that in some cases an increase has been shown in the panel chemists' accounts. The question as to the causes of the increase and as to what steps are necessary to take is receiving careful attention.

Mr. G. Locker-Lampson asked when the Government would be able to make an announcement.

Mr. Wedgwood Benn replied that there are many Committees, and in those cases where there is any doubt scrutiny is proceeding, and when the scrutiny is complete a full answer can be given.

Middlesex Panel Doctors.

The Hon. C. T. Mills, M.P., having asked the representative of the Insurance Commissioners whether he is aware that the Middlesex Insurance Committee have not yet paid the dispensing-fees to the panel doctors in the county since January 16, 1913; that medical men in rural districts where chemists are few have done their own dispensing at their own cost, and that these doctors have had to pay out their own money to their druggists since January 1913, with the result that in one case about 67*l.* 10*s.*, representing the fees for dispensing at the rate of 2*s.* per head per year, is now due to one doctor in the area and larger and smaller sums to other doctors; and whether he is aware that frequent applications have been made to the Insurance Committee for repayment without result; Mr. Wedgwood Benn has replied that arrangements have now been made by the Middlesex Insurance Committee for the payment of the remuneration in question for the year 1913, and for the payment of advances from time to time on account of similar remuneration for the current year.

Patent-medicine Committee.

Our Parliamentary correspondent learns that Sir Henry Norman's draft report will not, after all, be discussed

by himself and his colleagues until Tuesday, July 21, and that the deliberations are likely to be resumed on the following day. The report is stated to be of a most voluminous character, and to give every indication that the Chairman has bestowed much time and labour upon its preparation. It reviews in great particularity of detail the whole of the evidence which was given before the Committee, and makes a series of recommendations, some of which, it is believed, will be found to have been already anticipated by the *C. & D.* There is reason to believe that one recommendation put forward is to the effect that all advertisements relating to venereal diseases (a question which at the present moment is being exhaustively inquired into by Lord Sydenham and his colleagues on the Royal Commission) should be prohibited *in toto*, and the same may be expected to apply to those relating to women's ailments. The question of medicinal wines occupies a special place in the report. As many as fourteen separate analyses are stated to have been made in respect to them. The report is regarded as an able document, typical of the journalist by whom it is produced, and at the same time calculated to give rise to much discussion. It is believed that the two days set aside for it next week will not suffice to complete the inquiry.

NATIONAL HEALTH INSURANCE.

Replying to several questions in the House of Commons on Tuesday as to the position of Mr. Masterman, and as to which member of the Government would be in charge of the Amending Insurance Bill, the Prime Minister said that there had been many years in which there was no representative of the Duchy of Lancaster in the House of Commons—notably 1895 to 1902. He thought that the Insurance Commissioners were very ably represented in that House for the time being by his hon. friend the Member for St. George's-in-the-East, and the arrangements which had been made would continue to the end of the present Session.

Mr. H. Watt: Has not the time arrived to jettison Jonah when none seems anxious to swallow him? (Loud laughter.)

In regard to the Amending Insurance Bill our Parliamentary correspondent writes that there is no probability whatever of its being introduced during what remains of the present Session—which is to terminate about the third week in August—and the political future is clouded with so much uncertainty that it is quite unsafe to say that it will even see the light in the new Session, which, according to present arrangements, is to commence in the "early winter." There is, of course, admitted urgency in dealing with the question of the deposit contributor, the grants to women's societies, and the question of excessive sickness in certain hazardous trades. Against this urgency, however, must be placed the strong opposition which is likely to be manifested against the establishment of a State Society, the position of Mr. Masterman, and the fact that the Departmental Committee on Excessive Sickness has not yet reported. This Committee, which has been sitting for some months past under the chairmanship of Sir Claud Schuster, has ceased taking evidence, but its report is not yet available.

BUSINESS CHANGES.

Authenticated information for this section will be received by the Editor, and published, if not in the nature of advertisement.

MR. A. I. JONES, pharmacist, has purchased the business of Mr. S. T. Rees, 16 Lammas Street, Carmarthen.

MR. ARTHUR MILLER, Steyneview Pharmacy, Bognor, has sold his business to Mr. Cooper, chemist and druggist.

THE LONDON HYGIENIC CHEMICAL CO., LTD. (proprietors of Londovus, vermin-exterminator), have removed from 35 Walbrook to larger premises at 163 Blackfriars Road, S.E.

MESSRS. HOPE PEARSE, CARVALHO & CO., LTD., merchants and agents, 33 St. Mary-at-Hill, London, E.C., announce that the style of their company has been changed to Mansel, Carvalho & Co., Ltd. Mr. H. M. Mansel-Jones has become chairman of the board of directors.

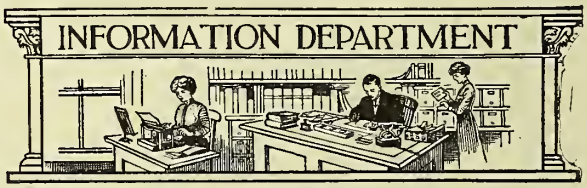
POISONING FATALITIES.

FOUR persons have died as a result of taking poisons during the week, three of them being suicidal cases. Concise particulars are subjoined.

Camphorated Oil.—Frederick Danbury, Taplow Street, Shoreditch, London, E., committed suicide by swallowing camphorated oil.

Cocaine.—Mrs. Hannah Jane Phillips, Aberavon, died of apoplexy associated with Bright's disease and accelerated by the use of cocaine in the extraction of teeth.

Oxalic Acid.—George Brown, Marlton Street, Greenwich, was found in Greenwich Park suffering from the effects of oxalic-acid poisoning, and died later at the Seamen's Hospital while under chloroform, which was given him for the purpose of using a stomach-pump.—Mrs. Elizabeth Brown, Castle Loan, Bo'ness, died at Linlithgow as a result of taking oxalic acid while in a depressed state of mind.



Postal Address:
C. & D. INFORMATION DEPARTMENT, 42 Cannon Street, London, E.C.
Telegraphic Address: "CHEMICUS CANNON LONDON" (two words).
Telephone Number: BANK 852 (two lines).

INFORMATION WANTED.

Postal or telephone information as to the names and addresses of the agents for or makers of the undermentioned articles is solicited. Please address as above.

24/29. Kemp's tattooing-oil (for marking sheep).
26/51. Soapstone fingers ($4\frac{3}{4}$ in. by $\frac{1}{2}$ in. by $\frac{3}{16}$ in.), for marking iron plates, packed in boxes containing one gross in each.
22/660. Glass balls for smelling-salts bottles.
28/33. "Crystaline" shampoo-powders.
31/3. "Flecce" brand sodium phosphate.
22/66. "Perseptum" feeder.
31/7. "Cristallos" (a photographic preparation of French origin).
31/70. Mackenzie's pink celluloid respirators.
32/23. "Sapello" liquid soap.
31/56. Cortex Alstoniæ Constrict. (supply in London).
33/43. "Chan - Swim" water-buoys: makers.

INFORMATION SUPPLIED.

Inquiries in regard to the following articles have been answered. The information will be given to others who send a stamped and addressed envelope for it to the above address.

Lead-acetate makers (in ton-lots), 19/44
Lee's soap, 18/31
Litharge (ton-lots), 19/441
Mastisol, 23/13
Mothersill's sea-sick remedy, 21/52
Mustard-making plant, 19/63
Oleic acid, 23/34
Pasteur (Chamberland) filters, 19/33
Pasteur vaccines, 19/21 and 23/40
Perborine, 18/31
Pinaud's brilliantine, 19/200
Piver's perfumes, 19/201
Plaster-spreading machines, 15/17
Potassium cyanide (ton-lots), 19/440
Radik lotion, 20/340
Radium-water, 20/64
Ramsey's aromatic bitters, 20/445
"Red Seal" suspensory bandages, 20/441
Revalenta Arabica, 23/42
Rough on Rats, 24/41
"Sivan" pedicure corn-plane, 21/51
"Tufflex" combs, 163/34 and 24/62
"Typhoo Tipps" tea, 16/290
Urocol tablets, 19/35
Uroquin, 20/31
Whisperphone, 19/5
Wolff's metaferrin. arsen., 19/6

LC-6689
The 'Allenburys' DIET
ALLEN & HANBURYS Ltd.
Wholesale and Manufacturing Chemists
LONDON & WARE
LONDON WARE
LONDON WARE

FIG. 535.

FIG. 1538.

FIG. 552.

FIG. 476.

FIG. 538.

FIG. 716.

FIG. 1647.

Effervescent Preparations

Specially manufactured in white granules of uniform size.

Effervescent Citrate of Magnesia

(No. 3 quality)

Packed in white glass Kalis, corked and capsuled.
4 oz. in 8 oz. 4/4; 6 oz. in 12 oz. 6/6; 8 oz. in 16 oz. 8/= per doz.

Also packed in blue flats, corked and capsuled.
4 oz. in 8 oz. 4/10; 6 oz. in 12 oz. 6/10; 8 oz. in 16 oz. 8/3 per doz.

Also packed in plug=stoppered Cheltenhams, capsuled.
4 oz. in 8 oz. 5/3; 6 oz. in 12 oz. 7/6; 8 oz. in 16 oz. 9/6 per doz.

Effervescent Carlsbad Salts

Packed in plug=stoppered squat Cheltenhams, capsuled.
Cartoned in fancy cartons, 7/6 per doz.

Effervescent Saline

Packed in plug=stoppered Cheltenhams, capsuled.
6 oz. f.c. 6/=; 8 oz. 7/6; 12 oz. 11/6; 16 oz. 15/6 per doz.
Cartoned or wrapped, 6d. per doz. extra.

Health Saline

Packed in round cornered lever=lidded tins.
5 oz. by weight 30/= per gross nett; 10 oz. 50/= per gross nett.

Liver Saline

Packed in round cornered lever=lidded tins.
5 oz. by weight 30/= per gross nett; 10 oz. 50/= per gross nett.

Seidlitz Powders

W.P. Loose 5/9 per gross.
Extra strong, 6/6 per gross; Double strength, 7/6 per gross.
Boxed 6/6 per doz. Extra strong, 7/3 per doz.

also Lemonade Crystals

See page 3.

Specimens of Labels or Samples of Preparations forwarded on request.

Allen & Hanburys Ltd.
London.

FIG. 1471. FIG. 227 FIG. 548. FIG. 285. FIG. 1193. FIG. 1376. FIG. 392. FIG. 1683.

Packed Drugs

Camphorated Oil

Packed in Wood's flats or American flats.
2 oz. 3/8; 3 oz. 4/9; 4 oz. 6/= per doz.

Capsules

Ammoniated Quinine	= 30 min.	24 in box	6/6 per doz.
" "	= 60 min.	24 in box	8/6 per doz.
Blaud's	= 5 gr.	24 in box	4/= per doz.
"	= 10 gr.	24 in box	4/6 per doz.
Cascara	= 30 min.	24 in box	6/6 per doz.
"	= 30 min.	36 in box	8/= per doz.
Copaiba	= 10 min.	24 in box	5/= per doz.
Easton's Syrup ..	= 30 min.	24 in box	6/6 per doz.
" " ..	= 60 min.	24 in box	8/= per doz.
Sandal Wood Oil ..	= 5 min.	24 in box	11/6 per doz.
" " " ..	= 10 min.	24 in box	15/= per doz.

Compound Liquorice Powder
(No. 3 quality)

Packed in white glass Kalis or Cheltenhams, boxwood top shives.
4 oz. f.c. 3/=; 8 oz. f.c. 4/6 per doz.

Eucalyptus Oil, B.P.

Packed in Wood's white glass flats or American flats.
1 oz. 3/6; 2 oz. 6/=; 4 oz. 10/= per doz.

Quinine and Cinnamon Perles

Packed in boxes containing 24 Perles.
6/6 per doz.

Santal Perles

Packed in bottles containing 42 × 3 min. Perles.
12/6 per doz.

Stomachic Powder
(Dr. Gregory)

Packed in white glass Kalis or Cheltenhams, boxwood top shives.
2 oz. f.c. 3/3; 4 oz. f.c. 4/6 per doz.

Comp. Syrup of Figs

Packed in panelled flats or American flats.
2 oz. f.c. 3/6; 3 oz. f.c. 4/9; 4 oz. f.c. 6/9 per doz.

A fully Illustrated List sent on application.

Allen & Hanburys Ltd.
London.

Packed Drugs

Bland's Pills

Packed in white glass direct squares, cartoned.

		72's	100's	144's	
Pearl coated	..	3/3	4/=	4/9	per doz.
Sugar coated	..	3/6	4/3	5/=	per doz.
Gelatin coated	..	4/3	5/=	5/9	per doz.

Packed in Vinaigrette bottles, screw metal caps.

Pearl coated	..	3/=	—	4/3	per doz.
Sugar coated	..	3/3	—	4/6	per doz.
Gelatin coated	..	4/=	—	5/3	per doz.

Packed in white glass rounds, screw metal caps.

Pearl coated	..	—	—	3/6	per doz.

Packed in amber rounds, boxwood top shives.

Pearl coated	..	2/9	—	4/=	per doz.

Packed in amber squares, boxwood top shives.

Pearl coated	..	2/9	—	4/=	per doz.

Carlsbad Salts

For prices see page 1.

Effervescent Citrate of Magnesia

For prices see page 1.

Effervescent Saline

For prices see page 1.

Seidlitz Powders

For prices see page 1.

Sulphate of Quinine

Packed in white glass rounds.

¼ oz. in 1 oz. 5/9; ½ oz. in 2 oz. 11/=; 1 oz. in 4 oz. 21/= per doz.

Lemonade Crystals

Packed in direct squares, capsuled.

1½ oz. f.c. 3/=; 4½ oz. f.c. 7/= per doz

An Illustrated Price List sent on application.

Allen & Hanburys Ltd.
London.

FIG. 276. FIG. 1299. FIG. 1309. FIG. 1733. FIG. 439. FIG. 1731. FIG. 1731. FIG. 1417. FIG. 279. FIG. 623. FIG. 623.

Packed Drugs

Labels specially reserved to Chemists only.

Bronchial Lozenges

Packed in cardboard boxes.
33/= per gross.

Cough Mixtures

Aniseed Cough Balsam

Packed in panelled flats or American flats.
2 oz. 3/9; 4 oz. 6/9; 8 oz. 11/6 per doz.

Black Currant Cough Balsam

Packed in panelled flats or American flats.
2 oz. 4/=; 4 oz. 7/=; 8 oz. 11/= per doz.

Cherry Pectoral Linctus

Packed in panelled flats or American flats.
2 oz. 4/=; 4 oz. 7/=; 8 oz. 11/= per doz.

Balsam of Horehound and Honey

Packed in panelled flats or American flats.
2 oz. 4/=; 4 oz. 7/=; 8 oz. 11/= per doz.

Balsam of Lemon Juice, Honey & Glycerin

Packed in panelled flats or American flats.
2 oz. 3/9; 4 oz. 6/=; 8 oz. 10/6 per doz.

Linseed and Honey Cough Balsam

Packed in panelled flats or American flats.
2 oz. 3/6; 4 oz. 5/3; 8 oz. 9/= per doz.

Lozenges, "Brompton Hospital"

Packed in hinged enamelled tins.
2 oz. 4/6; 4 oz. 7/6 per doz.

Lozenges, Compressed

Packed in boxes.

Pine and Camphor

33/= per gross.

Sulphur and Lime Juice

33/= per gross.

An Illustrated Price List sent on application.

Allen & Hanburys Ltd.
London.

Packed Drugs

Extract of Malt and Cod-Liver Oil

A perfect amalgamation of
Norwegian Cod-Liver Oil with active
Malt Extract.

Specially prepared by Allen & Hanburys Ltd.
in their own laboratories.

Packed in amber tinted round, oval or square jars,
fitted with double air-tight caps.
½ lb. by weight 5/=; 1 lb. 8/6; 2 lb. 15/=; 4 lb. 26/=;
7 lb. 42/= per doz.

Packed in porcelain jars
½ lb. by weight 5/3; 1 lb. 9/=; 2 lb. 16/=; 4 lb. 27/= per doz.

Packed in wide mouth bottles, fitted with patent caps.
6 oz. f.c. 5/=; 12 oz. f.c. 8/6; 24 oz. f.c. 15/= per doz.

Packed in wide mouth bottles, shived and capsuled.
6 oz. f.c. 5/=; 8 oz. f.c. 7/=; 10 oz. f.c. 7/9; 12 oz. f.c. 8/6;
16 oz. f.c. 10/6; 24 oz. f.c. 15/= per doz.

With Creosote:
1/6 per doz. extra for 1 lb. size.

With Easton's Syrup:
1/6 per doz. extra for 1 lb. size.

With Hypophosphites:
1/= per doz. extra for 1 lb. size.

With Iron:
1/= per doz. extra for 1 lb. size.

Extract of Malt
Packed in above styles.

Prices forwarded on application.

An Illustrated Price List forwarded
on request.

Allen & Hanburys Ltd.
London.

FIG. 324.

FIG. 1434.

FIG. 1436.

FIG. 1435.

FIG. 282 C.

FIG. 282.

Packed Drugs

Cod-Liver Oil Emulsion

A palatable Emulsion of finest Norwegian Cod-Liver Oil, containing 40 per cent. of Oil in combination with the hypophosphites of Lime and Soda.

Packed in white glass panelled Emulsion flats or Emulsion flats, capsuled.

6 oz. f.c. 6/9; 8 oz. f.c. 8/6; 12 oz. f.c. 11/6; 16 oz. f.c. 15/= per doz.

An Emulsion containing 25 per cent. of Norwegian Oil can also be supplied.

Flexible Gelatin Capsules

Manufactured by Allen & Hanburys Ltd., London. Uniform in size and accurate for contents.

Ammoniated Quinine	= 30 min.	24 in box	6/6 per doz.
" "	= 30 min.	36 in box	8/6 per doz.
" "	= 60 min.	24 in box	8/6 per doz.
" "	= 60 min.	36 in box	11/= per doz.
Bland	= 10 gr.	24 in box	4/6 per doz.
"	= 10 gr.	36 in box	6/= per doz.
Cascara Sagrada Ext.	= 30 min.	24 in box	6/6 per doz.
" " "	= 30 min.	36 in box	8/= per doz.
Copaiba	= 10 min.	24 in box	5/= per doz.
"	= 10 min.	36 in box	6/6 per doz.
Easton's Syrup ..	= 30 min.	36 in box	8/6 per doz.
" " ..	= 60 min.	24 in box	8/= per doz.
Sandal Wood Oil ..	= 5 min.	24 in box	11/= per doz.
" " " ..	= 10 min.	24 in box	15/= per doz.
" " " ..	= 10 min.	36 in box	21/= per doz.

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London.

Toilet Preparations

Egg Julep

Packed in white glass rounds or American flats, fancy labels.
6 oz. 6/6; 8 oz. 9/= per doz.

Rosa-Camph. Cream

Packed in fancy glass jars, celluloid caps.
1 oz. f.c. 3/=; 2 oz. f.c. 4/6 per doz.

Shampoo Powders

Supplied loose or packed in boxes containing 7 envelopes.
Loose—9/= per gross. Boxed—6/= per doz.

Borated Talc Dusting Powder

Packed in fancy dredger-top tins.
4/6 per doz.

Toilet Oatmeal

Packed in cardboard barrels, tins or wood barrels.
Cardboard barrels—4 oz. 3/=; 8 oz. 5/= per doz.
Tins or wood barrels—4 oz. 3/3; 8 oz. 5/6 per doz.

Water Softener

Packed in cardboard barrels, tins or wood barrels.
Cardboard barrels—8 oz. 3/6; 16 oz. 5/6 per doz.
Tins or wood barrels—8 oz. 4/=; 16 oz. 6/= per doz.

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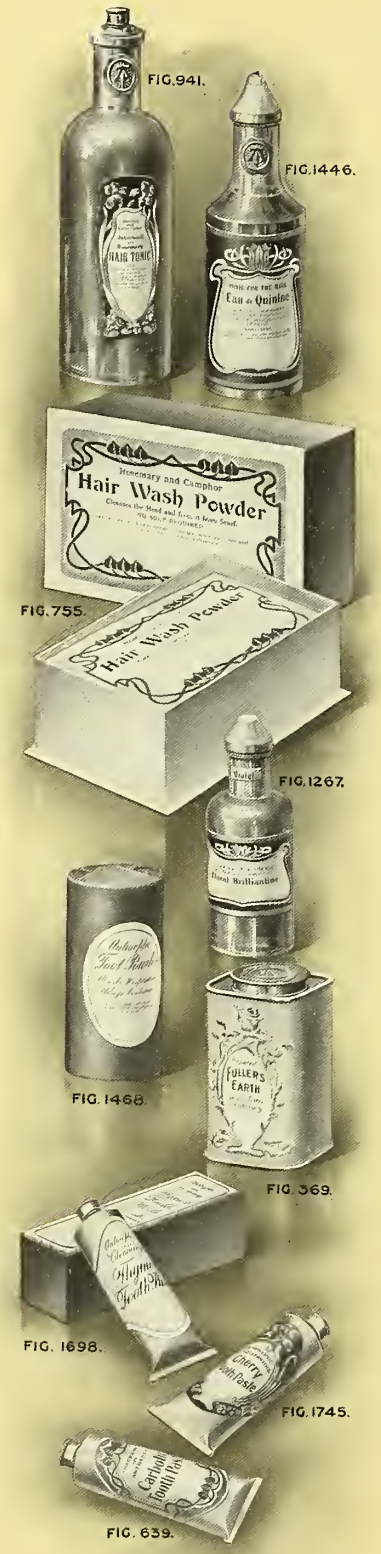

Toilet Preparations

Eau de Quinine

Packed in special white glass rounds, fitted with sprinklers.
4 oz. f.c. 12/3; 8 oz. f.c. 22/= per doz.

Floral Brilliantine

Packed in white glass cannons.
1 oz. 4/=; 2 oz. 7/=; 4 oz. 12/6 per doz.

Antiseptic Foot Powder

Packed in tins, fitted with dredger tops, wrapped.
2½ oz. by weight 3/6; 5 oz. 6/= per doz.

Jaborandi & Rosemary Hair Tonic

Packed in rounds, Venetian flats or American flats.
4 oz. f.c. 6/=; 6 oz. f.c. 7/6; 8 oz. f.c. 9/= per doz.

Rosemary & Cantharidine Hair Wash

Packed in white glass rounds or American flats.
6 oz. f.c. 6/=; 8 oz. f.c. 7/6; 12 oz. f.c. 9/6 per doz.
No. 2 quality—10 oz. rounds 6/6 per doz.

Tooth Pastes

Areca Nut, Carbolic, Cherry, Rose.

Supplied in collapsible tubes.
1 oz. 3/8 per doz., 41/= per gross.
2 oz. 6/6 per doz., 72/= per gross.

Also in covered earthenware pots.
¾ oz. 4/= per doz., 45/= per gross.

Thymol Tooth Paste

Supplied in collapsible tubes.
1 oz. f.c. 4/9; 1½ oz. f.c. 6/=; 2 oz. f.c. 7/3 per doz.

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OBSERVATIONS AND REFLECTIONS.

By Xrayser II.

Commonsense has Triumphed in the Wincarnis case, but though one agrees with the decision, the reasons given for it are scarcely convincing. The Judge who advised a young brother on the Bench never to give reasons for his decision, on the ground that although the latter would probably be right, the former would probably be wrong, was a wise man. In this case the Recorder seems to have argued that although Wincarnis is wine before quinine is mixed with it, the mixture turns it into something else; but if that is so, why did not the mixture of the extracts of malt and meat turn the port wine into something other than wine? In other words, why, on the Recorder's grounds, is Wincarnis to be classed as wine at all? And if by adding quinine to Wincarnis we change it from wine to something else, why does not a similar result follow the addition of quinine to port itself? Perhaps it does, but I doubt it. I have often been asked to add sixpennyworth of quinine to a bottle of port, and holding a full wine-licence, I could do so with a light heart, but should I have been allowed to sell port with quinine without a licence? There is not much doubt as to the answer. The line which divides meat from medicine is sometimes too fine for definition, and only commonsense can see where it runs.

At a Meeting of London Insurance Doctors convened last week by the Panel Medico-Political Union a resolution protesting against the suggested repeal of the compulsory provisions of the National Insurance Act, or any other attempt to alter its "basic principles," was passed with only one dissentient. "So the whirligig of time brings in his revenges." Two years ago doctors in London and elsewhere were fighting the Act with all their might and with any weapons that came to hand; now their main desire is to keep it essentially as it is, and their chief anxiety, apparently, to secure its administration from the control of Approved Societies. On this latter point pharmacists will be with the doctors, and it is a satisfaction to know that in any agitation that may arise for altering the Act radically they and we are likely to be on the same side. "Your grievances," said one of the leading practitioners of the neighbourhood to me this morning, "are much greater than ours, and I wonder they are so patiently borne."

Travellers, it seems (if I may return to a subject touched upon in my last week's notes), chose the name for themselves. So, at least, I judge from a passage in "St. Ronan's Well," where I read: "Those useful envoys of the commercial community, called by themselves and the waiters, *Travellers*, par excellence—by others Riders and Bagmen." It is a pity Sir Walter did not give us a note on this subject, for it could not have failed to be interesting. I gather, however, from other sources, that "Riders" is the oldest of the three names used in this connection. Its first known occurrence is in Fielding's "Covent Garden Journal," where a certain man is described as "a sort of rider or rideout to a linen-draper at London." Two years later a forgotten novelist speaks of a "Jack Goodfellow [the name is apparently meant to be typical of his class], a Rider to Mr. Buckram, a very eminent haberdasher in the City." The name persisted down to the time of Theodore Hook, who in "Jack Brag" has a reference to "a rider to some respectable house in the button line." Meanwhile, however, "bagman" and "bagster" (meant usually in a depreciatory sense) had come into use, and the former still survives. It is, I believe, regarded generally as an Americanism, but this is a mistake, for it dates at least from Oliver Goldsmith. It appears from a passage in Peacock's "Headlong Hall" (written in 1815) that these "envoys of the commercial community" are quite a modern institution.

The Locum has a much older date than the traveller, and his record under that name runs back in English usage to the fifteenth century, when he was usually acting for the local parson or medical practitioner. The locum in pharmacy (and, I expect, elsewhere) occupies a difficult position, and often gets, metaphorically, more kicks than ha'pence. He is not faultless even now, and as I remember him forty or fifty years since he was often a somewhat loose fish; but in this respect he has immensely improved, and the two principal charges I now hear urged against him—that of letting returns down, and that of not putting up stock—seem to me unreasonable. It is not likely that a stranger in charge of a shop for two or three weeks, at a time when many of one's customers as well as oneself are away on their holidays, will keep returns up to their normal level, and putting up stock for future use does not seem to me part of a locum's duty. He is there simply to supply present wants. Naturally he has less time for extra work than the proprietor himself, since he has to master local conditions which to the latter are thoroughly familiar, and unless he has (as many of his class have) a genius of adaptability, this is a very serious handicap. He has my sincere sympathy in a difficult and somewhat thankless *rôle*.

"The Custom of the Trade" in reference to the dispensing of prescriptions containing poisons is an unknown quantity, if we may judge from the statements submitted in the Old Street Police Court case. These statements prove that there is no such thing as a settled "custom of the trade" in this particular matter. When eight West-end chemists are equally divided in opinion it would require a good deal to convince me that there is any "custom" one way or the other. Here is a point that sometimes arises upon which some of your legal pundits might express an opinion. Retail chemist, A, gets an order from his customer, B, for a medicine containing a scheduled poison—say, Blaud's pills with arsenic and strychnine. A orders these from the maker, C, to be sent direct to B, who is probably a stranger to A, and certainly a stranger to C. The order is duly executed, the bills being sent by post to B. Obviously someone acts illegally in this case; is it A or C, or both of them?

A Knowledge of Bookkeeping is essential to success in any business; this is a truism. Is such knowledge also essential as evidence of the education needed to enable a budding pharmacist to carry through his scientific curriculum with credit to himself and benefit to the community? I think not, and few people will imagine that the Pharmaceutical Society would have any right to interfere. We all know that hundreds of young men are wrecked from an insufficient knowledge of business, but the wrecking process is not confined to pharmacy, and I am not aware that there is any movement among other shopkeepers for compulsory training in bookkeeping for their young men. Are these other traders more successful in business than we are? If so, there ought to be some explanation of the trouble. We are not born with a double dose of original sin, and there must be something to account for the trouble. Perhaps the semi-professional nature of our training develops the scientific at the expense of the trading side of our brain, or perhaps the sub-conscious influence of pharmaceutical tradition, with its memories of big profits, still influences our ideas, and we feel that having paid so much for our qualification we are entitled to look for professional fees, and to expect these to counterbalance any lack of business methods. Everyone admits that bookkeeping is essential to the modern business man, but we are not all equally agreed that the Pharmaceutical Society should erect any further obstacles to bar the path of the young pharmacist.

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Editorial Articles.

The Insurance Conference.

THE seven hours' work done by Pharmaceutical Associations' delegates at the Conference in London on Wednesday was chiefly negative. This is not a derogatory reflection. The business on the agenda consisted of proposals by Associations in England and Wales for the betterment, in the opinion of the proposers, of the conditions and terms upon which registered chemists do the dispensing for insured persons. The business done consisted in the thorough discussion of these proposals by the delegates from all the areas or territories concerned, whereby all aspects of the questions were viewed; then the Conference decided what was for the common good, the result being that comparatively few of the proposals were adopted in the form in which they were submitted. Besides, it was decided, in respect to many of the proposals, that it would be either inexpedient or injurious to adopt them. Many were referred to the Executive Committee.

We were impressed by the proceedings of the Conference. Once or twice things seemed to be in a hopeless muddle. They were like one of those mixtures which a dispenser is sometimes required to emulsify, that baffle all skill, until he settles down to the weary rotation of the pestle, when all at once, unexpectedly, undesignedly, coalescence occurs, and a perfect emulsion results. Similar happenings with men, their minds and opinions, were noticed on Wednesday. The official report of the Conference printed on pp. 53-54 mentions the positive resolutions; and a critical examination of our notes on the agenda-paper does not reveal any urgent requirement that could be added, for the deputation to Mr. Masterman and the reply elicited from him threw into shadow all the rest of the day's accomplishments.

We do not think that there is much in what Mr. Masterman said that those most fully informed in regard to Insurance Act dispensing and its statutory regulations could not have foretold. But that subtle significance and inexorably final decision which all feel in respect to a Cabinet Minister's utterance are in it, as well as the exceptional knowledge of the head of a Department. From this standpoint Mr. Masterman told the

deputation, in reply to their complaint as to discounting of chemists' bills, its cure and prevention:

> If Pharmaceutical Committees in districts where such discounting has occurred (roughly, one in four of the Insurance areas of England and Wales) exercise the rights of inspection and protest given to them by Medical Benefit Regulation 40 as fearlessly and well as Manchester has done, and Panel Committees and Insurance Committees ignore their representations, let them come to the Insurance Commissioners, who will do what they can to help them.

He said more than that, as to which see pp. 51-53, including a promise of prevention of discounting. Nothing more was to be expected of the head of a Department who has to administer an inelastic national fund. Nor did he promise anything that panel chemists are not entitled to or their representatives may enforce, but he revealed possibilities which they may not have been fully aware of. He cleared the atmosphere of Insurance dispensing, showing panel chemists where they are.

We desire to emphasise one fact for the majority of our readers in England and Wales. The matter concerns them in the abstract only; in actuality it applies to twenty odd areas in which discounting of the 1913 accounts is certain. Steps were taken at the end of Wednesday's Conference to get the representatives of these areas together, so as to take common action on the lines of the Minister's advice in order to secure a pecuniary remedy. For the whole body of panel chemists we have the assurance that Medical Benefit will in the future be so administered as to ensure chemists payment in accordance with Tariff terms.

Medicated Wines.

The recent prosecution of a Bradford chemist, reported in our issue of July 11, for selling Wincarnis with quinine without holding a wine-licence serves to draw attention once more to the unsatisfactory state of the law on the subject. In this case the law was shown after all to be on the side of reason and common sense; but this was only after an appeal had been carried to quarter sessions against a conviction which had been obtained before the Magistrates at Bradford. The prosecution maintained that Wincarnis with quinine is wine, and consequently an intoxicating liquor, for the sale of which a justices' licence is necessary under the Licensing Consolidation Act, 1910. It was proved in the course of the case that the mixture was regarded by the Commissioners of Customs and Excise as a medicated wine, for the sale of which by a recognised chemist and druggist no Excise licence is required. This view was acted upon by the chemist, hence the prosecution by the police authorities. The contention put forward by the prosecution is not very easy to comprehend—it apparently went so far as to imply that if a liquid contains a large percentage of port wine it must of necessity be wine, and so can be sold only under cover of a wine-licence. Such a view, if sound, would support conclusions of a startling character. It would, for example, involve the contention that because eau de Cologne contains a large proportion of spirits it must be spirits, and as such saleable only by retail under a spirit-retailer's licence. The Recorder, quite naturally as we think, repelled such a view, and decided that no wine-licence is required for the sale of Wincarnis with quinine. His decision may be taken to have been that there is no such thing known to the licensing law as medicated wine. If anything is in fact wine, a licence is required for the sale of it. To settle this question of law and fact was the whole difficulty in the case. Here the difficulty of deciding is enormously increased by two facts. One is that there is nowhere any legal definition by statute or decided High Court case of what is "wine." Certain liquids are, for Excise purposes, declared to be foreign wine, the object of the Legislature clearly being to distinguish them from British wines, which are technically known as "sweets." The second factor making for difficulty in the question is that the law relating to the sale of wine, in common with the sale of all intoxicating liquors, is administered by two sets of officials, who regard the subject from two wholly distinct points of view—the Excise authorities and the police authorities. The Commissioners of Customs and Excise naturally regard the matter from the point of view of securing the duty properly chargeable on the importation of foreign wine and the licence-duty chargeable on its sale. The police authorities look at the subject from the standpoint of the possible moral depravity involved in over-indulgence in alcoholic liquors. It must be said at once that the attitude taken up by the Commissioners of Customs and Excise in reference to the sale of wines regarded by them as medicated compares very favourably with the administration of the licensing law on the subject by the local police authorities. The position of the Commissioners is consistent, intelligible, and well adapted to meet the object which they have in view—the safeguarding of the duties of Customs and Excise upon wines. The view of the Commissioners is given in the *C. & D. Diary*, 1914, p. 496. It amounts, in short, to this—that if a wine is so medicated as to be incapable of use as a beverage, no Excise licence is required for its sale by a recognised chemist and druggist. The practice of the police authorities, on the other hand, is not capable of being brought within any general rule. The view held in one district as to the necessity for a justices' licence for the sale of medicated wines is not that which prevails in another. The result inevitably is a series of prosecutions similar in character to the Wincarnis-with-quinine case undertaken at irregular intervals, often in response to some passing wave of local feeling, and always productive of the maximum of trouble to those summoned for the minimum of result in the way of promoting any policy. That this is to some extent inevitable in the present state of the law is undoubted. But much might be done if some central department were endowed with authority to unify the practice of the police in the administration of the licensing law throughout the country. We are not, however, very hopeful of seeing such a remedy adopted. It would probably be too simple and logical to commend itself to those who take an active part in trying to settle the question of licensing the sale of intoxicating liquors. Another remedy for the present uncertainty might be found in a decision of the High Court on some case in which the position of chemists in regard to the sale of medicated-spirit mixtures was raised on a sufficiently wide issue. But we cannot ignore the difficulty of obtaining any such decision, having regard to the practice of the Court to confine its judgment strictly to the facts of the particular case before it. And, on the whole, we incline to favour a solution by which the present practice of the Commissioners of Customs and Excise in regard to the sale of medicated wines would be defined and regularised by statute. We commend the idea to any private member of Parliament who would be anxious to have a useful clause added to the Revenue Bill which is to come before the House of Commons in the new Session to be opened in November next. In this connection we may

recall the fact that two years ago Mr. Glyn-Jones endeavoured to get a clause dealing with the subject incorporated in the Finance Act, 1911, but the temperance party got at the Government, and the clause had to be dropped. There is still need for some such clause, even in the interests of temperance, hence our suggestion on the subject.

Quicksilver.

"What's the matter with quicksilver?" is a question which suggests itself in view of the recent mysterious movements in the metal. To supply a correct answer one would need be in the confidence of the Baron himself, as even his market emissaries when approached are usually cryptic in their utterances and know little or nothing. Certain facts, however, have come to light which tend to show that the monopoly in the metal held by the famous Almaden mines in Spain is being vigorously assailed by Italian producers, of whom there are at least four, the chief one, which paid a dividend of 60 per cent. in 1913, being in Piedmont. From statistics just published it appears that the Italian output has shown a rapid increase during the past five years, the exports in 1913 being 993 English tons, valued at 218,526*l.*, against 936 tons in 1912 and 931 tons in 1911, these figures being treble of the 1903 exports, while Spain produces between 1,400 and 1,500 tons annually. Like Spanish, the bulk of Italian metal is handled in London, the centre of the trade, and there is no doubt that this competition has done much to interfere with the close control of the market exercised for several decades by the Rothschild house. In fact, for some weeks past persistent undercutting of the so-called "official" quotation has taken place, seriously interfering with the outlet for Spanish. This competition has apparently led to a change of market tactics in the latter quarter, as a fortnight ago there was a cut of 5*s.* per bottle, some important business being done down to 6*l.* 10*s.*, the lowest figure reached for many months past. Immediately following this the price was put back to 6*l.* 15*s.*, but even this is no longer regarded as an "official" quotation, and business with the leading firm is purely a matter of private negotiation, the market now being a much freer one than in the past. The price-cutting which is now taking place between the two rival interests is certainly a disturbing feature, and places consumers in a difficult position. Report has it that the powerful Italian interests are not disinclined to open up negotiations with a view to arriving at an understanding, but there is reason to believe that the firm, who work the Almaden mines on lease from the Spanish Government, prefer to retain their liberty of action, and no *rapprochement* is likely to come from that quarter. The following figures show the total imports and exports of quicksilver for the first six months of 1914, with comparison for the three previous years:

		1911	1912	1913	1914
Imports.					
June	bottles	8,305	10,860	11,017	12,087
January-June	,,	37,781	42,654	39,844	35,179
Exports.					
June	,,	1,200	855	2,784	1,511
January-June	,,	18,036	13,383	17,652	11,972
Average Price.					
		8*l.* 3*s.* 6*d.*	8*l.*	7*l.* 1*s.* 6*d.*	6*l.* 16*s.*

It will be seen that although the imports for the above period (with the exception of 1912) show a sensible reduction, the average price has also lost ground. The home consumption has apparently been well maintained, but the reduced exports appear to indicate that the Spanish product has encountered much keener competition in the export markets through the increased output of other countries.

The New Pharmacopoeia.

We referred recently to the circumstances which fix the date of issue of the new British Pharmacopœia. The Executive Committee of the General Medical Council met on July 13 and formally adopted the draft of the new work submitted by the Pharmacopœia Committee. It has also been arranged that in advance of publication the British Pharmacopœia 1914 will be accessible to the public for inspection at the offices of the General Medical Council in London, Edinburgh, and Dublin, on and after August 10, from 10 A.M. to 4 P.M. daily. The work will not be officially published until October 9, when copies will be on sale by the publishers, Constable & Co., Ltd., 10 Orange Street, London, W.C. The decision to make the work accessible before the date of publication is new, and is intended to satisfy demands which have been made for advance copies by manufacturing houses who are desirous of being in a position to meet promptly the demand for new or altered galenicals. Before the work can be published the Privy Council is required by the Medical Acts to fix the sale price, and an announcement must appear in the "Gazette." These conditions will be fulfilled by October 9.

Reciprocity in South Africa.

The South African Medical and Dental Bill now before the Union Parliament is causing considerable agitation among Orange Free State and Natal chemists. The Bill has been mentioned frequently in our pages recently. It was introduced by General Smuts, as Minister of the Interior, to amend, and to some extent consolidate, the various laws in the Union relating to the registration of medical men and dentists. The Bill, if passed, will enable any medical practitioner or dentist now registered under a provincial law to practise as such throughout the Union without further registration, and it materially alters the nature of the qualifications hitherto required for registration in the various Provinces. In the original draft of the Bill chemists were included, but, the Cape Pharmaceutical Society having strongly protested against such reciprocity, on the ground that the qualification in the different Provinces varies considerably, General Smuts has decided to exclude chemists from it, which means that colonially qualified chemists will still continue to be debarred from practising outside the Province in which they obtained their diplomas—in other words, it perpetuates the Hannah *impasse*. The Orange Free State and Natal Pharmaceutical Societies, as will be seen from our South African News columns, are now working hard for the inclusion of chemists in the Bill. The Orange Free State Society have sent a protest to the Minister objecting to the discrimination against chemists, and requesting, in view of the urgent necessity for reciprocity, that chemists should be provided for in the Bill and accorded identical treatment with medical practitioners and dentists. It appears doubtful if their efforts will be successful.

W. A. C. Droege, 6 Templeton Place, Earls Court, London, who formerly traded as a wholesale druggist and failed in January 1899, with liabilities of 1,632*l.* 12*s.* 6*d.* and assets 5*l.*, applied to the London Bankruptcy Court on Thursday, July 16, for his discharge, which was granted, subject to suspension for two years.

"Discounting" Discussed.

A deputation representing the Pharmaceutical Society of Great Britain interviews the Right Hon. C. F. G. Masterman, Chairman of the National Health Insurance Joint Committee, in regard to the discounting of panel chemists' accounts for Insurance dispensing and its prevention. The Chairman, in reply, suggested the means for remedying past deficiencies and for future prevention.

The deputation referred to was received at Wellington House, Buckingham Gate, S.W., on Wednesday afternoon, July 15, at three o'clock, having proceeded from the Conference of Delegates of Local Pharmaceutical Associations (see p. 54). We subjoin a report of the interview furnished to us by the Clerk to the National Health Insurance Joint Committee :

Mr. Masterman to-day received a deputation from the Pharmaceutical Society of Great Britain. The deputation was introduced by Mr. W. S. Glyn-Jones, M.P., Parliamentary Secretary to the Pharmaceutical Society of Great Britain, and consisted of Mr. Edmund White, President of the Society; Mr. Sargeant (Leeds), a member of the Leeds Insurance Committee; Mr. P. F. Rowsell, J.P. (Exeter), a member of the Advisory Committee; Mr. Roper (Plymouth), member of the Plymouth Insurance Committee; Mr. E. S. Waring (Messrs. Boots, Ltd.); Mr. Joseph (Cardiff); Mr. Deakin (Cheshire), a member of the Cheshire Insurance Committee; Mr. J. P. Gilmour (Glasgow), a member of the Joint Advisory Committee and of the Glasgow Insurance Committee; Mr. J. R. Hill, Resident Secretary of the Pharmaceutical Society in Scotland; and Mr. W. J. Uglow Woolcock, Secretary and Registrar of the Pharmaceutical Society.

Mr. Glyn-Jones said that he wished to make it plain that the chemists who undertook work under the National Insurance Act had always recognised the difficulties which must arise in the first period of the Act's working, but that their position had now reached a critical stage, and it was for this reason that they desired to submit their views to Mr. Masterman.

Mr. White (the President of the Society) associated himself with this view, and said that he gratefully recognised the change which the Act had made in the position of the chemists, in that it had removed the greater part of the dispensing done for the working-class population from the hands of the doctors and entrusted it to the chemists. At the outset they decided that it was impossible to arrange payment on a capitation basis, and the present method of payment by tariff was arrived at after consultation between the Society and the Commissioners.

The Society were of the opinion that the amount allocated for the supply of the drugs and appliances supplied from the Tariff would, with proper safeguards, be sufficient. They thought that the experience of the past year has shown that the sickness-rate among insured women had a great effect in increasing the amount of drugs and appliances above what was estimated would be required. They also considered that a large amount of drugs for persons who were tuberculous, but were not in receipt of Sanatorium Benefit, were charged to the Drug Fund; but they were still of opinion that for the amount allocated insured persons generally could be supplied with all the drugs and appliances necessary, and the experience throughout the country justified this view. The agreement signed by the pharmacist contains a clause that if the two shillings does not provide a sufficient fund to pay the chemists' accounts in full, a discount should be made. This undertaking was entered into because of the belief that the provision would in practice be unnecessary. The deputation did not wish to submit the results in detail, as the Commissioners already had this information. Broadly speaking, the fund has been sufficient in 150 areas in Great Britain out of 196. In the areas in which a deficiency has arisen the amount varied in percentage from 5 per cent. to 30 per cent. Unless something was done to enable the chemists in the latter areas to have their accounts, when they had been submitted to check and scrutiny, paid promptly and in full, a serious situation would arise. The net remuneration received by the chemists on the panel when their accounts were paid in full was so small that no margin was left for such discounting. Whatever other views might be held on the position, it was manifestly unjust that pharmacists, who had no voice in what might be ordered, were to supply at their own cost anything which the medical men may choose to order. The deputation urged that where the Commissioners were satisfied that the accounts were correct, and that all the provisions of the regulations had been complied with as far as the Pharmaceutical Committee were concerned, the deficiency which had resulted should be made good. The deputation freely recognised that the position which has arisen could not be allowed to continue; they asked that steps should be taken, in the interest of the service, to prevent its recurrence.

Mr. Roper, Mr. Sargeant, and Mr. Joseph spoke in support of these views, and gave details of the experience of chemists in their own areas.

In reply to Mr. Masterman, Mr. Woolcock made certain concrete suggestions for dealing with the difficulties which the deputation raised.

Reply in Ipsissimâ Verbâ.

Mr. Masterman, in reply, said : Gentlemen, I have been very glad with my colleagues to receive you here this afternoon, and I should like to thank you for the tone and temper in which you submitted your propositions. I thoroughly endorse Mr. Glyn-Jones's statement at the beginning of the deputation as to the very friendly way in which negotiations have been carried on from the beginning between your Society and the Insurance Commission, and I am quite sure that in any changes or suggestions we may be able to elaborate you will find you lose nothing by having conducted the negotiations in such a spirit of goodwill. Mr. White gave us an outline of the conditions which have led up to the present state of affairs. I must make it clear from the beginning what those conditions are. After long discussion it was originally agreed that the service of the provision of drugs should be undertaken experimentally on a system of what I may call a Tariff and a discount; a Tariff elaborated by you yourselves, which, I think, has been adopted in every English and Welsh area—I believe there is some variation in Scotland—and which (in consequence of the discounting provision) has not been examined by us, or, I think, examined in detail by the Insurance Committee. You agreed to try the experiment of working this Tariff on the distinct condition that, supposing the money available in any area was less than the amount required at the Tariff rates, the bill should be discounted in order to come within that amount. It is quite untrue for anyone to say, therefore, that either the Commission, the Insurance Committee, the Government, or the Insurance Fund owes any individual chemist anything at all. There may be a very strong appeal for a variation in terms, but that must be of the nature of an appeal for adjustment owing to the conditions having turned out differently from what was expected, and not an appeal or a demand which could be justified in a court of law, or which represents any moral obligation at all on the part of the Government. (Hear, hear.) Then those conditions were subject to a special provision. It is a provision which has been mentioned this afternoon, and it is a provision to which we attach considerable importance. Clause 40 of the Regulations does definitely lay an obligation upon the Insurance Committee to proceed upon a report of the Panel Committee, prepared in response to action initiated by the Pharmaceutical Committee, to make surcharges where the excessive demand upon the Drug Fund has arisen owing to orders given by a doctor which are extravagant either in character or in quantity. You have given me some figures, Mr. White, about the effect of the experience of the year. I think you will agree that one of the most remarkable facts about those figures—one of the facts that require careful investigation—is the enormous fluctuations and variations that such figures exhibit. You have the cost of drugs per insured person in the counties varying from as low as 1*s.* per head to 2*s.* per head—a variation of 100 per cent. You have variations in the county boroughs ranging from 1*s.* 6*d.* to 1*s.* 8*d.* in some of the smaller towns up to a little over 2*s.* in London and the amazing figure of 3*s.* 2½*d.* in Manchester—a result which I cannot help identifying not so much with excessive sickness as with the special system which the doctors have there adopted. (Hear, hear.) Anyone may say this may be due to variations in the conditions of life or to the sickness incidence. But the next thing we find is enormous variations in boroughs which really are very similar in character and population. We have figures of 1*s.* 6*d.*, 1*s.* 9*d.*, and 2*s.* 3*d.* respectively in three towns all situated in the same Midland area, and largely engaged in the

same type of occupation. Then, I think, two of the gentlemen who spoke suggested, and I agree with them very cordially, that there is a loading of the Drug Fund in the case of women due to the excessive sickness which we now acknowledge exists among the women insured population. But then, in towns quite similar in character, engaged in the same occupations, largely with women working in the factories and mills, you have just the same enormous variations. Here, for example, in Lancashire are four towns with figures of 2*s.* 2*d.*, 2*s.* 3*d.*, 2*s.* 9*d.*, and 3*s.* respectively, all cotton towns, all with women workers. Then we have Mr. Glyn-Jones's huge area—Middlesex—where, I think, the figures are down to 1*s.* 9*d.*; while all round in areas with a population exactly similar, in London and West Ham and such-like Committee areas, you have considerably higher drug expenditure. It is, therefore, necessary, before we consider anything in the nature of a policy, that we should understand the meaning of those variations. Then I come to the much more serious question, that was also dealt with by Mr. Woolcock, of the variations, not between areas, but within the same areas, as between different doctors' lists of patients. There, I must confess, the statistics with which I have been furnished seem to me to show that some further explanation than that suggested by Mr. Glyn-Jones is required. (Hear, hear.) And that idea which Mr. Woolcock, I think, holds that some doctors are quite careless and wasteful about prescribing, and that some doctors—if, as I hope, only a small minority—may be trying to compete unfairly with their colleagues by means of the quantity of medicine they are giving, seems to receive some *primâ facie* justification.

Let me give you one or two figures that have been submitted to me in connection with Committees that have really investigated the question of over-prescription. Here in the case of one Committee in Lancashire there is one doctor with a panel of 500 who shows an average cost of drugs of 11*d.* per person, while another doctor with a panel of 1,110 shows an average cost of 9*s.* 10*d.* per person. Those are variations within the same Committee area, and I have just chosen them at random. A doctor with a panel of 1,400, 1*s.* 4*d.*; another of 1,400, 2*s.* 6*d.*; a panel of 1,600, 3*s.* 5*d.*; a panel of 1,900, 3*s.* 11*d.*; and then, again, a panel of 2,000, with an average of 2*s.* per insured person. As far as I know, these are dealing with a homogeneous population, and not in a particularly poor borough; and such vast variations as these must mean an extraordinarily different standard of prescription between doctor and doctor. (Applause.) In another borough in Lancashire I find variations of as much as from 1*s.* 8*d.* to 11*s.* 5*d.* I find an average cost per prescription—which is quite a different question from excessive sickness—varying from 5*d.* to 10*d.*, which is 100 per cent. variation. And I find, what I think is more serious, that the average number of prescriptions per person varies from 1.8 to 4.3—over 100 per cent. Then, again, in other areas, where they have investigated individual cases, I find the same few doctors appear as ordering the most expensive medicines, as ordering medicines most frequently, and generally as running up the charge upon the Drug Fund far beyond the average of their colleagues. I need hardly say that, as you know, we want to give the insured persons through the Act good and adequate drugs. If we do not, the Act is a failure. But either the majority of the doctors in the case of these areas are not doing their duty in prescribing, or the particular doctors I have referred to are doing something which is very different from their duty. Either one is wrong or the other. I think everything would seem to show that it is these few people who show such enormous excesses over the average who are the persons really to blame. And I am confident that we shall have the support of the overwhelming majority of the medical profession in any action which may be necessary to set these things right. Then I come on to the apparatus for dealing with this problem. There I agree with Mr. Woolcock that it is time that we considered the whole of the present arrangements with a view to increasing their efficiency and economy. On the other hand, I must say that, as far as the present deficiencies are concerned, we cannot consider any question of assistance towards those districts where there has been proved to be excess beyond the amount provided until such checks as are already provided by the regulations have been put into the fullest operation. I want to make that statement as categorical and definite as possible. We have a small fund at our disposal to deal with drugs for excessive sickness, but this can only be applied towards excessive sickness, not excessive prescribing. And the first thing, therefore, that I must ask those you represent to do, however unwilling and however invidious the work appears, is to attempt seriously to put into operation Clause 40 of the Regulations. Some Pharmaceutical Committees are doing it, and are producing very remarkable results. But my information, derived through Insurance Committees, is—you will correct me if I am wrong—that a very large number of your Committees, in areas where discounting will otherwise take place, are taking no action at all in the matter. I must honestly tell those Committees through you that if they for any reason think it inexpedient, or are unwilling, to take action, they can look for no help from us. The only Committees which we can consider the question of assisting are those who have really tried to put into operation the Regulations. I have here—and I can give you the list at the end of the deputation—a list of some twenty areas where I am informed no action of any sort has been, or is being, taken, all of which are subject to the discounting provisions. And here are the sort of reasons which are given to us for not putting them into operation :—"The chemists are unwilling to raise the question as a matter of policy, because they feel that to do so would be injurious to their interests, apart from National Health Insurance, as between doctors and chemists." Here is another and a very important Committee with a substantial deficit : "All parties appear to be fighting shy of the potential ill-will the process involves." Here is another : "Abortive action taken, but chemists, instead of pressing, ask the Insurance Committee to make representations to the Commissioners for payment." Here are others : "No action contemplated"; "No action"; "Chemists are averse from bringing charges, and do not wish to offend doctors." Another Committee says : "No action taken; relations between doctors and chemists are cordial," and so on. Those are the most serious cases we are dealing with. The first thing I want you to do is, by circulars or otherwise, to use what influence you can with these Committees, and to tell them that, having represented their case to the Commissioners—and, I may say, very ably represented that case—you have had the intimation that they cannot expect any assistance at all unless this Regulation has been made fully operative.

Mr. Glyn-Jones : Would I be right in putting it in this way : There are certain duties resting upon the chemists and their Committee in regard to preventing over-spending, and the obligation will be upon that Committee to satisfy the Commissioners that they have to the full exercised such powers as they have got. But their action will not be dependent upon anything the Panel Committee or the Local Committee will do. They can only do what they are empowered as a Pharmaceutical Committee to do, and they must satisfy you that they have left nothing undone which, under those powers, they ought to have done.

Mr. Masterman : Certainly; and if you have found that all your applications are in vain, we shall have to see what action we will take in connection with the Insurance Committee and the Panel Committee. I am not holding out any suggestion of a grant at the present moment either from the excessive Drug Fund or any other possible source, because I do not think in any case that could be given until we could either assure the auditors in the one case or the Government and the House of Commons in the other that the money was being given because of excessive sickness, and not because of excessive prescribing in normal sickness.

Mr. Glyn-Jones : I think I may say that we are keenly alive to this, that the whole system is on its trial, and we

do realise it is absolutely in our interests to see that no call is made for fresh funds. It is as much to our interest to prevent waste as it is to anybody's interest.

Mr. Masterman : I am bringing no charge against anybody. I only ask you to look into these facts, as my officials give them to me. Beyond that there comes the question of the future. There is the question of the Tariff. Neither the Insurance Commission nor the Insurance Committees have made any attempt to discuss the Tariff with the representatives of the Pharmaceutical Society, because of the safeguard of discounting. I think the first thing you ought to be willing to consent to, if we are to make changes, is an examination of the Tariff by representatives of all parties concerned.

I do not ask you to commit yourselves to this to-day, but I ask you to be willing that this should be done also : that in special or selected areas some kind of investigation should be held, immediately it was found that the time was ripe for it, into the actual amounts received and the money expended on Insurance work by the chemists of those areas. You will remember that when we were discussing the whole question of the payment of the doctors such investigations were held by Sir William Plender in connection with certain special areas. They were, of course, confidential in character. These investigations ought to be held by someone quite impartial as between chemists, doctors, insured persons, and the Commissioners. But I think your case might be strengthened for further action if you were willing to agree to such an investigation. Beyond that, I think investigations should be held into such points as those which Mr. Woolcock and Mr. White especially put forward this afternoon. What I really propose, then, is that we should establish immediately a Committee of investigation on these subjects. I should like to have a small Committee, and I should like to ask you to nominate some representatives. I do not mean to say that I want this Committee to avoid or prevent any action we may take in other directions. The Committee, on which you might appoint representatives—I think the Commission should have representation, and we would have some doctors also—might undertake to deal both with the Tariff and with certain other points affecting it.

The last question that you raise is the question of some strengthening of the check which is now provided against excessive prescribing, or which ought to be provided by the Regulations. The question of the Regulations under which the doctors will work next year is coming before the Commission in a very short time, and variations will have to be made in those Regulations, if variations are made, fairly speedily, in order to give the doctors an opportunity of deciding whether, when the variations are made, they will be prepared to serve again on the panel system. I will certainly note with interest and considerable sympathy the suggestions that you have made this afternoon. I do think that facts have shown us that we want something much more drastic in the nature of a check than Clause 40 as it at present operates, and I shall certainly see that your claims and contentions, supported as they are by statistics, are placed before those who will be negotiating from the doctors' point of view before we fully decide what Regulations shall be made. I have only one last word to say on the whole question. Your action in undertaking the dispensing and provision of drugs under the Act was experimental; so was the action of the doctors in working under the panel system. And no one, I think, can be quite clear at this moment what the ultimate form of the service will be, either as regards the dispensing service or the medical service. It depends very largely on the experience which is now being collected and examined, and it will be for Parliament ultimately to decide. I am quite sure that those doctors who, for whatever reason, are causing, through excessive prescribing, what is a serious situation as regards the drug supply in some of these areas, are seriously jeopardising the continuance of the panel system itself. I am sure that those who have a claim to speak for the medical profession as a whole will realise that fact and co-operate with us in effecting reform. You are perfectly justified in putting before me the contention that, when we have said everything we have to say, even if we revise the Tariff, even if we ask you to alter certain conditions, even if we take from you certain liabilities which you do not think you should justly bear, ultimately you are entirely in the hands of the doctors. No chemist can refuse to dispense prescriptions for medicines handed in to him by any insured person, however numerous or extravagant, in special and particular cases, such prescriptions may be. Therefore, if from carelessness or any other undesirable quality the kind of thing that Mr. Woolcock suggests is going on, that drugs are being wasted wholesale, that men and women are receiving drugs which there is no need for them to receive, and that some, at least, of the doctors on the panel are indifferent to the obligations which the panel service carries with it, then there will be an irresistible demand for a variation in the panel system by the time Parliament has to reconsider the whole question in the light of actual experience. Gentlemen, I thank you for having listened so patiently to my remarks. I am asking you now to do two things. First of all, to press upon all the Pharmaceutical Committees for such action under Clause 40 as the regulations provide. Until that has been done, and we have come to a conclusion upon that question in each individual committee, I can make no promise as to any further provision of funds. Secondly, I ask you to join with me and appoint representatives on the committee which will examine the whole of this question. Lastly, I promise that, apart from any question of deficits which have been already incurred, we will endeavour carefully to consider with the doctors and with you any further provision which may be necessary in order to prevent a recurrence of those deficits in the immediate future. (Applause.)

Mr. White thanked Mr. Masterman for his reception of the deputation, and the deputation then withdrew.

PHARMACEUTICAL SOCIETY.

NORTH BRITISH BRANCH EXECUTIVE.

MR. J. P. GILMOUR presided at a meeting of the Executive in Edinburgh on July 8. He welcomed Mr. Guthrie as a new member in a congratulatory speech appreciative of his abilities and worth.

Elections.

On the motion of Mr. Giles, seconded by Mr. Doig, Mr. J. P. Gilmour was unanimously re-elected Chairman. Mr. David Gilmour was confident this selection would give satisfaction to an even wider constituency than that of Scotland. The Chairman expressed his appreciation.

Mr. William Giles was unanimously re-elected Vice-Chairman.

The Chairman and Vice-Chairman and Messrs. Cowie, A. Currie, W. L. Currie, Fisher, Forret, D. Gilmour, Glass, Nesbit, and Storrar were appointed a General Purposes Committee.

The Chairman and Vice-Chairman and Messrs. Doig, Forret, and Guthrie were appointed a committee for nomination of examiners.

Other Business.

The General Purposes Committee was ordered to prepare a list of Divisional Secretaries for 1915, and to arrange for evening meetings.

The Chairman and Vice-Chairman and Messrs. W. B. Cowie, W. L. Currie, and James Nesbit were appointed delegates to the Chester meeting of the British Pharmaceutical Conference.

It having been arranged that a meeting of the Pharmaceutical Standing Committee (Scotland), with the members of the Executive present in conference, should be held immediately after the close of the meeting of the Executive, it was agreed to defer various matters relating to National Insurance to the joint meeting.

Insurance Act Dispensing.

A Weekly Record of events and decisions concerning Chemists' interests in Medical Benefit administration and practice.

The Second Conference

of delegates of Local Pharmaceutical Associations, called by the Pharmaceutical Society, was held in the Throne-room, Holborn Restaurant, London, on Wednesday, July 15, Mr. Edmund White, B.Sc., F.I.C. (President of the Society), in the chair. He was supported by the Vice-President and the Treasurer and Messrs. Allen, Bilson, Campkin, Cuff, F. J. Gibson, Gifford, Hagon, Harrington, Harrison, Parry, Rogers, Rowsell, and Sargeant, members of the Council, together with Mr. W. S. Glyn-Jones, M.P., Parliamentary Secretary, and Mr. W. J. Uglow Woolcock, Secretary and Registrar. There were also present on the platform Mr. J. P. Gilmour (Chairman of the Society's North British Branch), Mr. J. R. Hill (Resident Secretary in Scotland), the Editor of the "Pharmaceutical Journal," and the Editor of THE CHEMIST AND DRUGGIST. In addition to the members of the Associations Executive Committee who were present as delegates, Mr. Leo Joseph, of Cardiff, and Mr. Harry Kemp, of Manchester, also attended.

After a few preliminaries, it was agreed unanimously, on the motion of the President, that provision enabling

TRAVELLING-EXPENSES

of members of Local Pharmaceutical Committees to be paid should be made in the forthcoming amendment of the Insurance Act.

TERRITORIAL REPRESENTATION.

The President submitted an extract of the minutes of the Executive Committee on the election of the seven representatives of Associations on the Executive Committee, which showed that no definite scheme of election on a territorial basis had been arrived at, and that in the circumstances the Conference was asked to decide which (if any) of three schemes presented would best carry out the intentions of the Conference. A long debate ensued, and eventually a motion reaffirming a previous resolution of the Conference that the Executive Committee be appointed on a territorial basis was put to the meeting and lost. It was decided, on a motion by Middlesex, that the men comprising the present Executive Committee shall be re-elected until the next Conference meeting. In connection with the consideration of this question the Conference expressed the opinion that a report of the proceedings of the Executive Committee should be sent periodically to the Local Associations.

"DISCOUNTING."

It was moved by Hants that in agreements between the Insurance Committees and chemists for the supply of drugs and appliances the "discounting clause" is regarded as a most unsatisfactory provision, and that the difficulties it was framed to meet should be otherwise dealt with. This was seconded by Salford and carried unanimously.

THE DRUG TARIFF.

Several motions appeared on the agenda dealing with the question of a national Tariff, and very considerable discussion ensued thereon. Eventually the following was agreed to after a vote by ballot had been taken:

"That this Conference is of opinion that the Tariff should be national and uniform for England and Wales, but that where local variations are necessary they should only be made after consideration by, and with the consent of, the Executive Committee of this Conference."

Immediately after luncheon a deputation from the Conference proceeded to interview Mr. Masterman (see p. 51). The Vice-President (Mr. Neathercoat) meanwhile conducted the meeting, Mr. A. J. Chater (Assistant Secretary) sitting on his right, and Mr. A. E. Bailey on his left.

A long list of amendments embodying suggestions for improving the Tariff was gone through, and a series of recommendations for the consideration of the Executive Committee of the Conference were agreed to.

OTHER MATTERS.

Motions dealing with the Drug Fund inadequacy and transfers from Sanatorium Fund were discussed, and, after explanatory statements from the Chairman, were withdrawn.

At this point the deputation returned to the meeting, which shortly after adjourned for tea, when the opportunity was taken to state the result (see p. 51).

A discussion took place on the cost of checking prescriptions, and it was recommended that, in view of the fact that in many areas the Drug Fund is already overdrawn, it is most desirable from a business point of view that all prescriptions and demands upon the Drug Fund should be checked.

It was resolved, on the motion of Dewsbury, to request the Insurance Commissioners to furnish an authoritative definition of the "mile radius."

It was moved by Birmingham, and carried, that the Conference instructs its Executive to press for more pharmaceutical representation upon local Insurance Committees.

It was further agreed, on the motion of Derbyshire, that the Executive shall point out to the Commissioners that the utility of the Pharmaceutical Committees is imperilled where the work of such Committees is being restricted by reason of unwarranted opposition by the Insurance Committee.

The report of the Returning Officer on the elections of Pharmaceutical Committees was read and the results declared (see pp. 57-59).

The date of the next Conference was fixed for Wednesday, January 20, 1915.

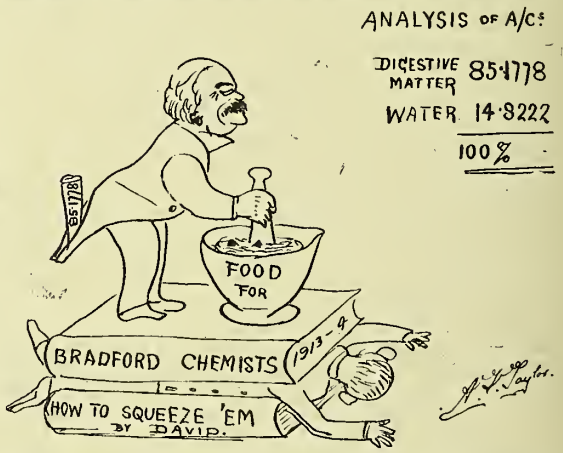
The Conference closed with votes of thanks, having sat, with intervals for luncheon and tea, from 11 A.M. until 7 P.M. A meeting of the representatives of the deficiency areas was subsequently held in the Council-chamber at Bloomsbury Square.

Reports from Local Centres.

With special reference to the supply of medicines and appliances. See also Association Affairs.

ENGLAND.

The Bradford Position.—Mr. Arthur F. Taylor, pharmacist, Frizinghall, Bradford, informs us that panel chemists in the town have received their final cheques for



the first year's Insurance dispensing, and his reflections upon the event are embodied in the above sketch, which is a reduced facsimile without touching-up or anything.

Bath.—The Clerk reported to the Insurance Committee on July 9 that all the chemists had not sent in their accounts for the past month; consequently he had been unable to calculate the usual monthly payments. He added that the Secretary of the local Pharmaceutical Association should impress upon chemists the necessity of sending their accounts in promptly. They will be paid *pro rata* when received.

Blackburn.—It was reported to the Insurance Committee on July 14 that the Panel Committee had gone carefully through the prescriptions selected by the Pharmaceutical Committee, and had interviewed the medical men concerned, but could find no case of excessive prescribing. Complaints against one doctor, who had prescribed excessively a proprietary article, had also been investigated, and the Panel Committee were not satisfied with the explanation of the doctor, and were of opinion that his prescribing had been excessive both in quantity and quality. The Committee confirmed a resolution that a conference with the Panel and Pharmaceutical Committees should be held, with a view to agreeing upon a principle of surcharging doctors in such cases.—On June 15 it was agreed that the whole of last year's prescriptions should be examined, and the following averages ascertained in respect of each medical man:

(*a*) The average price per prescription.
(*b*) The average number of prescriptions issued per person on his list.
(*c*) The average cost of drugs per person on his list.
(*d*) The average cost of drugs per person for the whole area.

The Panel Committee were also requested to make an investigation into the prescribing of those practitioners whose average is shown by the returns to be 33⅓ per cent. over the average for the area, and to report the result.

Burton-on-Trent.—At a meeting of the Insurance Committee on July 9, Mr. W. Lean said that there was a deficiency on the Drug Fund of 181*l.* 1*s.* 4*d.* Nearly 50 per cent. of the insured population had been receiving treatment and medicines. The average cost of drugs had been 2*s.* 9*d.* per head on the insured population, and altogether 5,800 prescriptions had been dispensed for which chemists had not been paid. He moved that the Committee draw the attention of the Commissioners to the deficit, and strongly urge that means be found to provide a further grant sufficient to pay chemists' accounts in full for the past year. It was, however, decided that the matter should first be referred for investigation to the Pharmaceutical Committee themselves, or in conjunction with the Medical Committee, for report to the General Purposes Committee.

Bury.—The Insurance Committee on July 7 agreed that a settlement of the doctors' and chemists' accounts for 1913 be effected provisionally on the basis of the revised credit, and that these accounts be submitted to the Panel and Pharmaceutical Committees for inspection. A letter from the Hon. Secretary of the Panel Committee was read: (*a*) requesting that practitioners be allowed to supply bottles of lotion as emergency medicines at the Tariff rate for such medicines, and (*b*) stating that hypodermic injections could not properly be included in the class of emergency medicines, but suggesting that practitioners might order a supply of hypodermic drugs for use in emergencies. The letter is to be submitted to the Pharmaceutical Committee. The Finance Committee reported that 5,322*l.* 19*s.* 1*d.* had been paid to chemists, and it is expected that panel doctors will get 1,405*l.* from the Drug Suspense Fund for 1913. Mr. Turton, in moving the adoption of the report, said the state of the Drug Fund for the present year was not encouraging to chemists, and doctors who supplied their own drugs would get, like chemists, only 75 per cent. At a special meeting of the Committee it was resolved that the Chairman, the Pharmaceutical Representative, and the Clerk should prepare a letter for transmission to the Commissioners upon the subject of the Drug Fund, expressing the opinion that this fund is inadequate so far as regards the borough.

Derbyshire.—At a meeting of the Insurance Committee on July 6, the Finance Sub-Committee reported that for the month which ended on May 11, 28,702 prescriptions had been dispensed, at an average cost of 8.25*d.* and a total cost of 986*l.* 11*s.* 5*d.* It was stated that out of 180,822 persons on the doctors' lists 60,977 are being dispensed for.

East Sussex.—It was reported to the Insurance Committee on July 7 that panel chemists had been paid 157*l.* 12*s.* 6*d.*, the balance due to them for 1913.

Essex.—The Panel Committee have resolved to agree to the proposition put forward by the British Medical Association, that a yearly conference should take place between the British Medical Association and the Pharmaceutical Society.—At a meeting of the Southend-on-Sea Corporation, attended by Mr. Wylie (Clerk to the Insurance Committee) and representatives of the N.H.I. Commissioners on July 7, it was decided that the County Insurance Committee should continue to carry out the duties until the end of the year, when the new County Borough would be in perfect readiness to undertake its work. Southend and district chemists will therefore continue to send prescriptions to the County Office. We are asked to state that under these new conditions no further meeting of the local Association will be called during the summer, but specific instructions will be issued to every member.

Halifax.—The chief cause of the deficiency on the Drug Fund (*C. & D.*, July 11, p. 56) is that, while the Insurance Committee have 42,000 insured persons on their lists, the Commissioners allow for 39,000 only. Local chemists are making vigorous protests against the treatment they are receiving.—A meeting of the local Association was held on July 8, Mr. H. K. Woodward presiding, to discuss a letter received from Mr. Masterman *re* the Drug Fund. The chief points of the letter were:

"The Insurance Committees have entered into agreements with chemists on the following basis: the medicines supplied are priced in accordance with an agreed tariff. If the total bills for the area so priced are within the sum of 2*s.* per head of the insured population (excluding those insured persons for whose medicines the doctors are responsible in rural areas) the bills are paid in full. If the bills exceed a sum of 2*s.* they are discounted *pro rata*. This discounting provision is conspicuously set out in the agreements themselves, and its effect was fully understood by chemists when they first entered into contracts with Insurance Committees.

"Further, for the protection of chemists against reckless or extravagant prescribing, the regulations enable them to obtain a scrutiny, with a view to detecting any such excess or extravagance, and provide for doctors being surcharged with the cost attributable thereto.

"While the discounting provision may appear to involve a certain amount of hardship in the few cases in which it will be brought into operation, the possibility of such an event was not overlooked by the chemists when they entered into their agreements, and the principle was accepted by the central bodies representing chemists as an express condition of their securing the organisation of the Insurance drug-supply on the present basis. The tariff propounded by the Pharmaceutical Society itself has everywhere been adopted as a matter of convenience, and no attempt has been made locally to scrutinise its prices on a strictly commercial basis.

"Hence it will be clear that even if chemists are discounted on the tariff prices, it by no means follows that they have lost money by their dispensing, or even that they have not made a substantial profit."

To the points raised in the above the meeting instructed the Secretary to send the following replies:

(1) The discount clause was accepted under protest, and we did not anticipate that it would be necessary to put it into operation, nor had we any evidence with which we could compare it. We expected that the British Government would at least meet its just liabilities and pay 20*s.* in the £.

(2) There is no evidence of any general expensive prescribing, and any reduction of the average cost could only be to the detriment of the patient.

(3) Discounting was brought into operation in thirty-nine industrial areas, and the tariff is considered reasonable. At no time has the average cost per prescription exceeded 8.25*d.* The agreement was signed because chemists had no option and felt they could not afford to keep off the panel. With this statement the Panel Committee, although interested to the extent of 25 per cent. of the Drug Fund, are in thorough agreement.

Mr. P. W. Swire reported that he had informed the Insurance Committee that the reasons for the inadequacy of the Drug Fund were:

The Fund had been credited with about 3,000 florins less than statistics proved to be its due. The crowded nature of an industrial area like Halifax is less conducive to good health than a country district; the proximity of the surgery to the insured person in a town induced him to seek a doctor for mere trivial ailments.

Discussion took place upon the attitude of the Pharmaceutical Society, strong disapproval being expressed of the secretive policy adopted by them. A resolution was passed expressing the opinion that the Pharmaceutical Society were not taking sufficient action on behalf of the chemists in industrial areas where a deficit exists in the Drug Fund, and stating that, unless drastic steps are taken, the members will seriously consider withdrawing from the Society. Mr. A. Hanson, Queensbury, was elected a member of the Halifax Association.

Holland (Lincs).—The Clerk reported to the Insurance Committee on July 6 the receipt of a letter from the Commissioners, stating that the amounts paid to the doctors should be treated as strictly confidential, and should be withheld from the Press. After some discussion it was agreed to apply this ruling to chemists also. The Clerk also reported that the Committee had lost 2,000*l.* on suspense slips, which could not be placed to the credit of the Committee.

Isle of Wight.—In view of a communication from the Commissioners to the effect that the amount of deductions from the Medical Benefit Fund in respect of temporary residents is likely to be greater than in the past year, the Insurance Committee have decided that 80 per cent. only be paid on account to the doctors for the quarter ended July 11. The payments to doctors total 1,652*l.* 15*s.*, the highest individual payment being 130*l.* 15*s.* and the lowest 1*l.* 8*s.* The chemists have been paid 90 per cent. of the amounts of their accounts, the total payments amounting to 618*l.* 11*s.* 4*d.* (*C. & D.*, July 4, p. 57), the highest being 93*l.* 1*s.* 2*d.* and the lowest 10*s.* 2*d.*

Liverpool.—The Insurance Committee has issued a report as to the number and cost of prescriptions dispensed since January 1913, excluding temporary residents and domiciliary tuberculosis treatment, as follows:

	Number	Cost £	s.	d.
Quarter ended April 1913 ...	171,956	5,125	15	10
,, July 1913 ...	148,540	4,991	5	6½
,, October 1913 ...	144,892	5,128	0	7½
,, Jan. 11, 1914 ...	167,334	6,279	0	11½
	632,722	21,524	2	11½
,, April 11, 1914 ...	210,022	8,361	13	8½

The figures for the last quarter are approximate only, as the accounts are not completely checked. The gradual increase in the average cost per prescription is notable—viz., from 7.13*d.* in the first quarter of 1913 to 9.55*d.* in the corresponding quarter of this year. The official checkers report that they find the prescriptions more accurately priced quarter by quarter, but the same care does not appear to be taken in sorting Sanatorium Benefit prescriptions

from those chargeable to Medical Benefit. As there is a possibility that there will be a deficit in the Drug Fund at the end of the current year, Mr. G. V. C. Last advises that more care should be taken to see that prescriptions are charged to the proper account.—The "yellow forms" on which doctors ordered their requirements (dressings, etc.) have been discontinued, and ordinary "white forms" are to be used in future. Account forms for the quarter ended July 11 have now been supplied to local chemists, along with a circular letter drawing attention to the delay in settlement through prescriptions not being attached to the proper forms, and chemists are asked to rectify this, and to parcel-up the various accounts separately.

London.—At the last meeting of the London Panel Committee consideration was given to the Budget proposals to provide grants in aid of the establishment of centres for the co-operation of practitioners on the panel, and the Panel Service Sub-Committee recommended that such centres should provide accommodation for a trained nurse, an *x*-ray operator, a clerk, and, if possible, a chemist on the list of persons supplying drugs and appliances. After discussion, it was agreed to pass the recommendations, omitting the clauses relating to chemists. The Committee also resolved:

(i.) That proprietary medicines and secret remedies, which are held out to the public for purposes of self-treatment, should not be supplied at the cost of the Drug Fund.

(ii.) That a preparation in the nature of a wholly manufactured food should not be supplied at the cost of the Drug Fund.

(iii.) That no drug, chemical or pharmaceutical preparation, where the constitution, composition, or formula is fully known, should be prescribed under a branded name unless such name is solely representative of that particular article, and the prescriber is prepared to defend its use before the Panel Committee.

(iv.) That prescriptions for mixtures, pills, etc., should not be supplied at the cost of the Drug Fund unless the full formula has been written out by the prescriber or full reference is given by the prescriber to any standard work or publication recognised by the Insurance, Panel, and Pharmaceutical Committees, so that any chemist on the panel is in a position to dispense the same; and that the Insurance Committee and the Pharmaceutical Committee be so informed.

The question of "Rep. mist." prescriptions has been exercising the Committee a good deal, and officials are in favour of their abolition; but a number of practitioners object very strongly to giving up a practice which in pre-Insurance days was not so troublesome, and which they regard as one of their rights. The London Insurance Committee has ranged itself alongside the chemists in this matter, and is pressing for a definite opinion from the Panel Committee. For a second time, however, the Committee failed to come to a decision. In regard to extravagant prescribing, the following resolutions have been passed:

(*a*) That the Insurance Committee be required to submit to the Panel Committee information in regard to all prescriptions ordered by practitioners on the panel, which cost more than 1*s*. per complete item including the dispensing-fee, together with information in regard to prescriptions in which the quantity of drugs or appliances ordered is apparently excessive.

(*b*) That the Panel Committee are of opinion that, although the publication of a list of articles which may not be charged to the Drug Fund is undesirable, practitioners on the panel should receive some guidance as to what may, and what may not, be supplied at the cost of the Drug Fund, and that it be referred to the Pharmacy Sub-Committee to take the necessary steps in the matter.

As to the supply of drugs and appliances, the Committee has resolved:

(*a*) That the Panel Committee are of opinion that, in the absence of any specification as to the quality of bandages ordered, a person on the list of persons supplying drugs and appliances should supply grey bandages when "bandages" are ordered.

(*b*) That the Panel Committee are of opinion that, when practicable, medicines should be supplied in marked bottles with an indication on the label that the markings on the bottle indicate the doses to be taken.

Also with a view of obtaining a test case on the question whether the supply of a medicine on a prescription under the Act constitutes a sale in the legal sense, the Committee has resolved:

That it is desirable that samples of the drugs supplied to insured persons should be obtained for analysis by an officer of the London Insurance Committee, or his deputy, and submitted to a public analyst, any necessary legal action to be taken at the discretion of, or on the recommendation of, the Joint Services Sub-Committee; and that the Insurance Commissioners, the Insurance Committee, and the Pharmaceutical Committee be so informed.

We learn that panel doctors are now making unexpected demands on the Drug Fund for emergency drugs.

Manchester.—Panel chemists received a copy of the revised Tariff (No. 3) on July 15 along with instructions that it became operative on July 1. The necessary supplementary agreement for signature was also received. There are many varied and extensive alterations in the new Tariff. Increased prices are now allowed for drugs which before were supplied almost at a loss. The new arrangement for pricing the quantities from grains or minims to drachms and ounces will facilitate the pricing of prescriptions.

Middlesex.—Mr. J. Humphrey presided at a meeting of the Pharmaceutical Committee on July 8, when several matters arising out of the administration of the Medical Benefit were reported as satisfactorily settled, and the Secretary (Mr. H. Wolff) stated that there would be no contest for the new Pharmaceutical Committee. Funds had been provided for administration expenses by the Insurance Committee, and various details connected with the expenditure of the last six months were satisfactorily arranged. A hearty vote of thanks was accorded to the Chairman for his services in that capacity.

North Riding.—In the course of his report on the work of 1914, the Chairman of the Insurance Committee stated that 201 doctors were on the panel, and 130 chemists. The number of prescriptions dispensed was 119,391, at a cost of 3,955*l*. 7*s*. 10*d*., and 2,994*l*. 1*s*. 6*d*. had been paid to panel practitioners for supply of drugs in rural areas.

Norwich.—The Chairman, at the annual meeting of the Insurance Committee on July 8, said that in 1913 there were on the panels thirty-two doctors and twenty-three chemists. The payments made were to doctors, 12,752*l*.; to medical institutions, 3,036*l*.; and to chemists, 3,805*l*. The index register shows an insured population of nearly 45,000 as at April 12, 1914. In addition to these, about 3,000 index slips representing insured persons are in suspense, owing to variations between the index register and the medical register. The Chairman of the Medical Benefit Sub-Committee reported that the chemists' prescriptions in 1913 numbered 104,956. For the first quarter they were 27,688, at an average of 6*d*. per prescription; for the second quarter, 25,811, at an average cost of 6¼*d*.; for the third quarter, 23,710, at an average cost of 6½*d*.; and for the fourth quarter, 27,747, at just over 6¾*d*. each. For the whole year the average was 6⅜*d*., and the average for the first quarter of this year is also higher.

Preston.—The Insurance Committee on July 8 agreed to transfer 63*l*. 4*s*. 4*d*. from the Sanatorium Benefit Fund to the Drug Fund, so as to rectify previous errors. The Pharmaceutical Service Sub-Committee reported that they could not see their way to amend the report presented to the Committee on June 10 and referred back (*C. & D.*, June 20, p. 57). The report gave a decision on a complaint by a doctor that a chemist had not supplied an ointment in accordance with his prescription, and the Sub-Committee decided that there had been a misunderstanding on the part of the chemist in interpreting the prescriber's intention, and recommended that panel chemists should be warned that prescriptions must be faithfully dispensed as regards ingredients, quality, and quantity ordered. Dr. Sellers and Dr. Collinson took exception to a part of the report which stated that doctors should refrain from writing to chemists asking for explanations to be made direct to them, and that all complaints should be forwarded in writing to the Insurance Committee. This portion having been deleted, the report was passed.

Reading.—It was reported to the Insurance Committee on July 10 that the Pharmaceutical Committee had applied for an annual grant of 50*l*. for administration expenses, and that the matter had been submitted to the Panel Committee for consideration. The Medical Benefit Sub-Committee recommended payment of chemists' accounts as rendered monthly, the balance not to be paid until the whole of the accounts for the quarter have been checked. It was also recommended that payment of 51*l*. 1*s*. 11*d*. be made to eighteen chemists and contractors, this being all of the 10 per cent. discounting (59*l*. 5*s*. 3*d*.) that could be paid. It represents ⅞*d*. in the pound discount on the payments for 1913.

Rochdale.—The total amount of chemists' accounts for 1913 was 4,100*l*., of which 3,814*l*. has been paid, and 49*l*. is still available. The cost of drugs averaged 2*s*. 3*d*. per head. The Pharmaceutical Committee has protested against the 6 per cent. discount. For the quarter ended July 11 the payment to chemists was 850*l*., that being 90 per cent. of the sum estimated to be available.

Sheffield.—Mr. G. T. W. Newsholme has been re-appointed chemists' representative on the local Insurance Committee for a further period of three years. [*C. & D.*, June 27, p. 101.]

Southampton.—At a meeting of the Insurance Committee on July 13 it was reported that the total amount for remuneration of chemists in respect of 1913 was 2,628*l*. 7*s*. 7*d*. It was resolved that advance payments for the period ended July 11 be made to chemists, equal to

90 per cent. of the estimated available income. Last quarter the chemists received 80 per cent., and it is understood that the number of prescriptions for the quarter ended July 11 are from 25 to 30 per cent. less than the previous quarter, so that chemists should receive nearly the whole of their money for the last two quarters. It was agreed that the Panel Committee and the Pharmaceutical Committee should arrange a conference with a view of coming to an amicable arrangement with regard to the dispute between them as to aqua. An application by the Pharmaceutical Committee for administrative expenses was referred to the Commissioners, the Panel Committee raising no objection.

Staffordshire.—The Medical Benefit Sub-Committee reported to the Insurance Committee on July 3 that Dr. Lockhart Lowe, Darlaston, had asked if he should dispense for his patients when the chemist's shop is closed on Thursday afternoons and evenings and on Sundays. It was resolved to inform Dr. Lowe that he could dispense medicines in cases of emergency, and the Clerk was instructed to write to the chemist asking him to make provision for the supply of medicines, etc., on Thursday evenings and on Sundays at some convenient hour.

Stoke-on-Trent.—On the recommendation of the Medical Benefit Sub-Committee, the Insurance Committee on July 9 approved of the arrangements made by the Pharmaceutical Committee so as to secure that a sufficient number of places of business of panel chemists, etc., shall be open for the supply of drugs at all reasonable times, and a list of the times is published locally. The Sub-Committee also reported that the Pharmaceutical Committee had applied, under Section 33 (2) of the 1913 Act, for administration expenses, amounting to 80*l.*, for the six months ended July 11. The Sub-Committee could not see their way to accede to the request, as the doctors met the expenses themselves, and the chemists ought to bear them also. When the report came before the Insurance Committee, Mr. Edmund Jones (Chairman of the Sub-Committee) regretted that his colleagues thereon had not agreed to the request, and explained that the chemists' idea was to employ expert clerical assistance to check prescriptions under their guidance and instruction, as is done elsewhere. The Committee agreed with the Sub-Committee's report.

West Bromwich.—The Finance Sub-Committee's report for 1913 shows that the amount paid for medicines was 2,033*l.* 14*s.* 8*d.*, and 95*l.* 5*s.* 10*d.* remains in the Drug Suspense Fund. By invitation of Mr. Withers, the first meeting of the new Pharmaceutical Committee will be held at Messrs. Bullus & Co.'s Pharmacy, 262 High Street, West Bromwich, on July 28, at nine o'clock.

West Sussex. The Insurance Committee on July 11 decided to grant the Pharmaceutical Committee 25*l.* for administration expenses. The name of Savage & Co., St. James' Street, Brighton, was added to the list of panel chemists.

Yorkshire.—Mr. S. N. Pickard (Ossett) has been reappointed by the Commissioners as chemists' representative on the West Riding Insurance Committee for a further term of three years.

SCOTLAND.

Aberdeen.—The Finance Committee's report, which was presented at the meeting of the burgh Insurance Committee, dealt with a report by Mr. John Johnston on the chemists' accounts for the quarter ended January 12, 1914. The report indicated that of a total of 38,904 prescriptions, 35,000 had been checked, of which 35 per cent. were incorrectly priced, 2,774 overcharged, and 802 undercharged. The excess of overcharged prescriptions over undercharged amounted to 17*l.* 10*s.* A number of prescriptions were found which should not properly have been a charge upon the Drug Fund—*e.g.*, domiciliary prescriptions. The prescribing of larger quantities of cod-liver oil and emulsions than seemed to be necessary at one time was referred to. A conference of representatives of the Pharmaceutical Committee and the Finance Committee discussed various points dealt with in the report, and among suggestions made were that appliances outside the Tariff should not be supplied, that emergency dressings to doctors should be limited to a value of 5*s.*, and that the supply of bandages for footballers should only be for sickness, and not for training purposes. The Panel, Pharmaceutical, and Insurance Committees are to consider these points. The Clerk intimated that the number of prescriptions dispensed during the quarter ended April 12 was 44,347, and the average cost was approximately 10¼*d.* per prescription.

WALES.

Cardiff.—At a meeting of the Insurance Committee on July 10, Mr. J. B. Lewis, B.Sc., clerk in the employ of the Committee, was appointed to check prescriptions at a commencing salary of 130*l.* per annum. It was stated that the Committee now pay 100*l.* a year to the Pharmaceutical Society for this work.

Monmouthshire.—At a meeting of the Insurance Committee on July 8, the Chairman (Alderman S. N. Jones) stated that the number of insured persons within the area of the Committee on October 29, 1912, was 91,374, the average number for the year ended January 11, 1914, was 96,737, and the number on April 12, 1914, was 103,579. The number of doctors on the panel was 161, and of chemists sixty-three, 104 doctors and thirty-eight chemists being resident in the county, while fifty-seven doctors and twenty-five chemists were resident outside the county. The average cost per prescription for last year was 7.73*d.*; the total number of prescriptions for the year was 131,224, and the cost 4,228*l.* 1*s.* 10*d.* Tuberculosis treatment is provided by the King Edward VII. Welsh National Memorial Association at 9*d.* per annum for each insured person.

Notes.

MR. J. F. BURNETT, Ph.C., 254 Fylde Road, Preston, has retired from the borough Insurance panel.

PROPRIETARIES IN WALES.—The following is the passage in the National Health Insurance Report for 1913-14, to which reference was made in the *C. & D.* last week: The Committee have approved of the inclusion in the Drug Tariff agreed upon between Insurance Committees and persons supplying drugs and appliances of the following general rules as to proprietary articles and galenicals:

(*a*) Secret remedies should not be paid for by Insurance Committee, as they cannot be considered "proper and sufficient drugs and medicines."

(*b*) No proprietary remedies of known composition that can be prescribed under their appropriate non-proprietary designation should be paid for by the Insurance Committees.

(*c*) Where some particular manufacturer's proprietary medicine of known composition is prescribed it may be supplied by the chemist, but subject to the right of the Panel Committee to declare the prescription extravagant and to deduct the extra cost from the practitioner and credit it to the Drug Fund, in accordance with the procedure indicated in Article 40 of the Medical Benefit Regulations, 1913.

Pharmaceutical Committees.

AT the Conference of Local Associations, held under the auspices of the Pharmaceutical Society in London on Wednesday, July 15, the results were reported of the nomination and election under the National Insurance Acts and regulations of Pharmaceutical Committees to serve from that date. It was stated that the Registrar under the Pharmacy Acts was appointed returning officer in 123 Insurance areas in England. In 104 areas the nominations did not exceed the number of vacancies on the Committee. In seventeen areas, where the nominations exceeded the number of vacancies, a postal vote was taken. In one area only one nomination was received, and in one other area no nomination at all. In these two areas the returning officer declared the election void. The Registrar was also appointed returning officer in seventeen Insurance areas of Wales. In sixteen areas the nominations did not exceed the number of vacancies on the Committee. In one area no nomination was received. In this area he declared the election void. The names of the persons elected to the various Committees are given in the succeeding paragraphs. The members are of three classes—viz., I. Registered pharmacists on dispensing panels; II. persons who supply drugs and appliances, but are not entitled to dispense; and III. persons who supply appliances only. In cases where persons in classes II. and III. have not been elected the I. and II. references are excluded by us:

ENGLISH COUNTIES

Bedfordshire.—(I.) E. P. Anthony, Bedford; W. S. Clark, Luton; J. Flemons, Dunstable; J. H. Lloyd, Bedford; F. Perkins, Bedford; J. B. Taylor, Flitwick; W. White, Luton. (III.) E. P. Chantler, Luton.

Berkshire.—(I.) H. J. Davis, Newbury; G. Lane, Wokingham; H. R. Metcalf, Newbury; A. B. Reynolds, Wallingford; M. C. Rock, Maidenhead; A. Upson, Maidenhead.

Buckinghamshire.—(I.) C. Grier, Aylesbury; F. J. Janes, Aylesbury; E. T. Palmer, Aylesbury; J. W. Smith, Stony Stratford; F. W. Taylor, Newport Pagnell; H. E. Walden, Slough; R. T. Wylie, High Wycombe; H. E. Young, High Wycombe.

Cambridgeshire.—(I.) G. E. Beall, Cambridge; B. S. Campkin, Cambridge; A. Coulthard, Sawston; J. Evans, Cambridge; H. Flanders, Cambridge; S. J. Parson, Cambridge; E. S. Peck, Cambridge. (II.) E. Matthews, Royston, Herts.

Cheshire.—(I.) J. Cumming, Crewe; J. W. Deakin, Northwich; T. H. Duncalf, Macclesfield; F. E. Evans, Lymm; G. Humphreys, Northwich; F. W. Scanlon, Altrincham; A. Simpson, Stalybridge; H. W. Wallis, Ellesmere Port; W. H. Watkinson, Congleton; G. F. Wild, Hyde. (II.) E. B. Newton, Over Winsford; J. Rutter, Winsford.

Cornwall.—(I.) J. H. L. Benney, Falmouth; A. Bond, Newquay; H. H. Cannon, Penzance; A. C. Gee, Redruth; W. A. Masters, St. Austell; S. M. Nortbey, Bodmin; W. Pickard, Bude; J. E. Poad, Looe; A. J. Roberts, Truro; A. F. Stephens, Camborne; A. Wood, Truro.

Cumberland.—(I.) F. B. Bennett, Whitehaven; H. Clarke, Whitehaven; J. Cowper, Penrith; J. H. Grayson, Whitehaven; J. Hardy, Maryport; D. W. McVitie, Maryport; H. Smith, Workington; J. R. Taylor, Workington; T. W. Townley, Keswick; G. E. Woodhouse, Workington.

Derbyshire.—(I.) J. A. Cope, Derby; E. Crossley, (Boots, Ltd.), Derby; H. G. Fletcher, Eckington, Sheffield; J. Gelsthorpe, Long Eaton; F. J. Hitchcock, Alfreton; F. McKinlay, Glossop; J. Osborne, Ashbourne; J. H. Shepherd, Woodville, Burton-on-Trent; C. W. Southern, Belper; W. Taylor, Heanor; C. H. Twelves, Chesterfield; W. S. Wain, Ripley.

Devonshire.—(I.) J. H. Bibbings, Newton Abbot; S. S. Brown, South Molton; J. E. Calkin, Salcombe; R. D. Doble, Tavistock; M. T. Foster, Cullompton; F. Maitland, Stonehouse; T. F. March, Torquay; W. W. Pine, Exeter; P. F. Rowsell, Exeter; J. H. Scott, Ilfracombe; W. J. Sheppard, Barnstaple. (II.) G. Packham, Exeter.

Dorsetshire.—(I.) T. G. Aitken, Upper Parkstone; H. Ayre, Poole; R. H. Groves, Blandford; F. Hancock, Weymouth; J. A. Haynes, Parkstone; P. M. Martin, (Boots, Ltd.), Weymouth; W. S. N. Merrick, Dorchester.

Durham.—(I.) R. S. Backhouse, Durham; G. A. Brown, Shildon; R. Cubey, Blaydon; W. Forster, Seaham Harbour; E. Gregory, Stockton; A. Harburn, Bishop Auckland; A. E. Houlton, Consett; W. C. Longstaff, Pencehouses; A. Peverell, Bishop Auckland; C. A. Sharp, Darlington; J. F. Simpson, Felling-on-Tyne; J. W. Sterling, Birtley.

Essex.—(I.) W. Bevan, Harwich; J. Brooks, East Ham; H. Cocker, Ilford; T. England, Romford; F. H. M. Foster, Stratford; J. Freeman, Barking; P. G. Jordan, Grays; E. N. Lloyd, Forest Gate; W. Maskew, Clacton-on-Sea; J. H. Matthews, Leytonstone; T. L. Nicholls, Chelmsford; T. P. Pechey, Maldon; C. Rundle, Walthamstow; T. H. Seed, Leyton; E. H. Slater, Epping; A. Weddell, Colchester.

Gloucestershire.—(I.) J. Chambers, Cheltenham; S. J. Coley, Stroud; T. T. Dolman, Cheltenham; A. L. Hall, Winchcombe; W. H. Hampton, Gloucester; T. H. Hawley, Cheltenham; W. H. Hill, Cheltenham; C. H. James, Cheltenham; H. Miller, Cheltenham; J. S. Palmer, Thornbury; L. L. Stroud, Tewkesbury; A. W. Turner, Lydney.

Hampshire.—(I.) H. L. Allen, Aldershot; C. H. Baker, Cosham, Hants; S. G. Bartlett, Winchester; A. E. Chaston, Winchester; C. S. Davies, Havant; G. H. Gare, Lymington; G. A. Harbin, Portsmouth; J. Horne, Eastleigh; A. H. Owen, Christchurch; E. H. Smith, Gosport; E. Thornhill, Basingstoke; F. B. Wride, Southampton.

Herefordshire.—(I.) G. Donaldson, Hereford; W. M. Ellwood, Leominster; F. H. Fortnam, Hereford; R. B. Sandiland, Leominster; S. A. Shackleton, Hereford; P. S. Smith, Bromyard.

Hertfordshire.—(I.) D. W. E. Barker, Watford; R. Bennion, Watford; F. W. Cannon, Baldock; J. M. Clouting, Hitchin; E. H. Fisher, St. Albans; G. H. Pierson, New Barnet; H. D. Roffey, Barnet; E. R. Samways, Watford. (II.) E. Matthews, Royston.

Huntingdonshire.—(I.) J. W. Beck, Huntingdon; T. J. Calcutt, Peterborough; H. J. Dukes, St. Neots, Hunts; H. J. Morgan, Kimbolton; A. H. Palmer, Ramsey, Hunts; J. G. Sturton, Peterborough; H. S. Turner, St. Ives, Hunts.

Isle of Ely.—(I.) P. H. Davies, March; F. Gibson, Littleport; W. R. Girling, Wisbech; M. Herrod, Wisbech; M. Hill, Wisbech; W. Lincolne, Ely; F. Oldham, Wisbech; M. Sharpley, Whittlesea.

Isle of Wight.—(I.) H. W. Barford, Ryde; W. T. Deeks, Shanklin; O. E. Hickson, Ventnor; A. Millidge, Newport, I.W.; E. W. Pollard, Ryde; F. Roberts, Newport, I.W.; H. J. Sadler, Cowes; F. Woollings, Sandown.

Kent.—(I.) A. F. Corfe, Maidstone; J. H. Cuff, Dover; A. Deans, Maidstone; R. M. Ewell, Dover; G. F. Forster, Dover; A. E. Hobbs, Tunbridge Wells; A. W. Hudson, Cranbrook; J. E. Hudson, Sheerness-on-Sea; G. P. A. Hunt, Tunbridge Wells; F. C. Jones, Folkestone; H. D. Kelf, Bromley; F. J. Oliver, Maidstone; H. C. H. Oliver, West Malling; C. J. Taylor, Cheriton; W. H. Westmoreland, Chatham; J. T. Withers, Dover.

Lancashire.—(I.) N. Blacow, (Boots, Ltd.), Prestou; A. L. Crabtree, Oldham; H. Eastwood, Nelson; T. H. Heyes, Ulverston; E. Jepson, Darwen; C. A. Maries, Waterloo; A. Peake, Earlestown; H. S. Phillips, Wigan; W. I. Scholes, Eccles; J. H. Taylor, St. Annes-on-Sea; W. Thornber, Accrington; J. Vince, Lancaster; H. A. Watkinson, Farnworth; W. B. Woods, Ormskirk.

Leicestershire.—(I.) C. J. Avery, Leicester; G. J. Baldwin, Loughborough; W. T. Hind, Leicester; J. H. H. Land, Coalville; K. Nixon, Hinckley; P. C. G. Stiles, Market Harborough.

Holland (Lincs)—(I.) E. A. Bailey, Boston; E. W. Bell, Spalding; W. Bullivant, Boston; S. J. Hurst, Boston; B. J. Kent, Boston; A. H. Molson, Spalding; L. F. Saunders, (Boots, Ltd.), Spalding; C. Wass, Holbeach.

Kesteven (Lincs).—(I.) W. D. Cox, Grantham; S. R. Cundale, Grantham; B. Fillingham, Grantham; H. Hopkinson, Grantham; J. S. Prior, Stamford; B. G. Skipworth, Grantham; W. Spyvee, Sleaford; G. E. Whysall, Grantham.

Lindsey (Lincs).—(I.) C. H. Ashton, Grimsby; J. W. Carr, Cleethorpes; F. W. Dennis, Louth; H. P. Fletcher, Scunthorpe; J. Forrester, Cleethorpes; H. C. Lee, Gainsborough; H. R. Maynard, Horncastle; W. H. Osborne, Caistor.

London.—(I.) C. T. Allen, Kilburn; E. A. Atkins, Wandsworth; W. T. Bolwell, Putney; C. W. Brumwell, Euston Square; A. H. Edgar, Mile End, E.; J. Y. Fairweather, Sydenham; G. W. Hatfield, Commercial Road, E.; A. H. Jenkin, Tollington Park; J. Keall, Wandsworth; A. R. Melhuish, Grosvenor Square; J. Murison, Harmood Street, N.W.; E. G. Price, Lewisham; H. Skinner, G.N. Central Hospital, Holloway Road; J. A. Thompson, Loudon Fields, N.E.; W. Wilkinson, West Kensington. (II.) A. F. Barnard, 88 Columbia Road, N.E.

Middlesex.—(I.) C. W. Andrew, East Finchley; T. Bright, Willesden; H. E. Clement, Hampton Hill; C. Coulter, Wood Green; J. T. Davy, Edmonton; W. Duncan, Tottenham; H. Gray, Harringay; A. W. Hall, Pinner; S. C. McKee, Acton; W. H. Peake, Twickenham; H. Rigden, Harrow; S. P. Sayers, Hendon; H. Skinner, Highgate; E. F. Strickland, Ealing; J. W. Webber, Chiswick; B. Webster, Muswell Hill.

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Glamorganshire.—(I.) W. J. Allen, Barry; H. S. Arnold, Cwmavon; D. Arnott, Pontypridd; J. B. Benjamin, Penarth; W. O. Davies, Pontypridd; A. Griffiths, Maesteg; T. Llewellyn, Ogmore Vale; J. K. Morgan, Barry; W. E. Rees, Barry Dock; W. Thomas, Gorseinon; D. Williams, Mountain Ash; G. I. Williams, Maesteg.

Merionethshire.—(I.) W. E. Evans, Corwen; D. Jones, Towyn; H. Jones, Blaenau Festiniog; H. W. Lloyd, Bala; J. Lloyd-Jones, Blaenau Festiniog; G. W. Williams, Dolgelly; H. W. Williams, Barmouth; G. J. R. Wynhall, Aberdovey.

Monmouthshire.—(I.) C. H. Clarke, Chepstow; H. W. Dix, Pontypool; A. Enoch, Blackwood; F. W. Evans, Cwmfelinfach; E. O. Jones, Brynmawr; T. H. Prichard, Abertillery; H. T. T. Roberts, Abergavenny; A. C. Sumption, Blackwood; B. Thomas, Cwmbran; W. Thornton, Blaenavon; W. P. Williams, Aberbargoed.

Montgomeryshire.—(I.) A. Breese, Newtown; H. E. Ellis, Llanfair; J. K. Jones, Llanidloes; F. J. Nash, Newtown; H. Payne, Welshpool; D. Rees, Llanidloes; J. O. Roberts, Newtown; J. Thomas, Machynlleth.

Pembrokeshire.—(I.) W. H. Bowling, Pembroke Dock; B. P. Davies, Haverfordwest; H. P. James, Tenby; J. H. Llewellin, Milford Haven; T. Meyler, Fishguard; F. D. Phillips, Haverfordwest; W. H. Thomas, Neyland; R. H. Treweeks, Pembroke.

WELSH BOROUGHS.

Cardiff.—(I.) A. Hagon, J. A. Jones, J. L. Jones, L. Joseph, E. Poole, W. R. Williams. (III.) F. Edwards.

Merthyr Tydfil.—(I.) J. Francis, E. J. Harries, T. Jenkins, H. M. Lloyd, I. Owen, R. P. Rees, J. Roberts, V. A. Wills.

Newport, Mon.—(I.) T. J. Badgett, A. O. Findlay, C. C. Giles, A. Gratte, B. Harries, T. Howell, J. W. Phillips, E. E. Price.

Swansea.—(I.) E. Bevan, H. L. Havard, J. Rees, E. W. Richards, H. Richards, W. Thomas.

DURING 1913 crude drugs valued at 2,999*l.* were imported into St. Louis from the United Kingdom, as compared with 1,980*l.* in 1912. Chemical imports from the same source were valued at 9,139*l.*, against 5,276*l.*; and the imports of opium *viâ* U.K. amounted in value to 6,654*l.*, compared with 17,243*l.* in 1912.

LIQUORICE-ROOT.—The exports from the port of Tripoli (Syrian coast) during 1913 amounted to 4,500 tons, against 2,200 tons in 1912. New York was the chief destination. From Batoum the exports in 1913 were 24,291 tons, against 15,647 tons in 1912 and 15,186 tons in 1911; exports from Novorossik during 1913 were 3,165 tons, against 1,486 tons in 1912.

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P.A.T.A. and C.D.A.

ON Tuesday, July 14, the eighteenth annual meeting of the Proprietary Articles Trade Association was held at the Salisbury Hotel, London, E.C., Mr. J. Godber (of Messrs. Newton, Chambers & Co., Ltd.), President, in the chair. There was an exceptionally good attendance. The President, in proposing the adoption of the annual report and financial statement (*C. & D.*, May 23, p. 794), commented upon the comparatively dilatory manner in which retail chemists come forward for membership. Mr. S. N. Pickard seconded the proposition, and the Chairman then invited discussion, in which Mr. Alfred Higgs, Mr. Milner (Greenwich), Mr. Sigismund Kutnow, Mr. Pickford, and Mr. G. J. Knight indulged. The Secretary (Mr. Glyn-Jones, M.P.) replied, dealing chiefly with the question of the profits secured by the P.A.T.A. A suggestion had been made that the Council should do something to check advertising, which some of the members considered to be objectionable, but the Secretary pointed out that the Association cannot interfere, as its business is to get profit, and as soon as the Council interfered in other matters profits would be jeopardised, because the Sections might not agree in regard to these extraneous questions, and the supreme principle of price-maintenance might go by the board.

The report and financial statement were then adopted.

Breaking Bulk.

Mr. Higgs suggested that the Council should consider and take such action as might be deemed advisable in regard to the following notices of motion he had given:

"(*a*) That the sale of medicines subject to duty without having on each packet or other enclosure a medicine-stamp is contrary to the provisions of the Medicine Stamp-duty Act, 1812.

"(*b*) That the concession of the Board of Customs and Excise in permitting the sale of medicines subject to duty otherwise than in strict conformity with the Act is giving an undue preference to a certain class, since like facilities are withheld from vendors who are at the same time makers of the medicine.

"(*c*) That the practice of vending medicines which have been duly stamped in smaller quantities without a stamp is illegal, besides being prejudicial to the public weal. It has been the means of affording facilities for unscrupulous vendors to substitute other medicines, thus defrauding the Revenue and the public."

Mr. Higgs spoke in support of his proposals, showing that the practice is to the detriment of retailers. He submitted that the Revenue authorities are wrong in saying that a twist of paper and an unsealed envelope are not an inclosure within the meaning of the Acts, and expounded fully the points which he put forward in his letter to the *C. & D.* of July 4. He referred to Sir Nathaniel Highmore's evidence before the Select Committee on Patent Medicines as forecasting an amendment of the law, but questioned if that would be for the good of the trade; indeed, the last condition would be worse than the first. He also put in a letter that he had received from the Revenue authorities, in which it was stated that no printed description of the article should be on the paper on which any dutiable medicine is retailed in small quantities from a stamped packet.

Mr. Milner seconded the motion, and emphasised the loss that retailers are suffering.

Mr. Kutnow, replying to Mr. Higgs, said that he for one would have no objection to the publication of his formula. It could be paraded by sandwichmen all through London, but giving to the chemist power to say, "I will put up this formula," was quite a different matter. There was no chemist who could buy ingredients as good as the manufacturer, who had to see that those used were only of first-class quality. The P.A.T.A. could not possibly deal with the subject Mr. Higgs had introduced. It could be better dealt with by the Pharmaceutical Society of Great Britain.

Mr. Glyn-Jones, at the request of the Chairman, said that under the articles it was open to the Association to discuss any matters which were of common interest to branches of the proprietary-articles trade, with the view to a decision. No one could say that the subject introduced was not one of common interest. (Hear, hear.) If he were asked for his advice, he should say that he held a very strong opinion indeed on the point raised. He submitted that their success as to price-protection lay in keeping strictly to that matter, and not going into controversial subjects that do not bear upon it. The Association had done that as regards the Select Committee, and with satisfaction to all concerned. As to the present matter, before he could get the Association to make representations he must show that it was to the interest of the whole Association, including all the proprietors whose interests would be attacked, that such representations should be made. He added that it was quite clear from the Council-meeting that morning that there were members of the Council who agreed with Mr. Higgs's motion. But if adopted, it would assuredly create great friction, if not a split, and they would have here a repetition of what happened in America—the establishment of three separate Associations, representing manufacturers, wholesalers, and retailers, each working separately and pulling its own string. The resolution said that the view of the Association was that the sale of medicines in small quantities without a stamp was illegal. He did not think the Association would use the expression that a practice that had been going on all those years with the sanction of a Government Department was illegal until they obtained the necessary advice that would enable them to do so. If the thing was to be seriously thrashed out, they would embark upon a discussion which in the end would do no good. (Hear, hear.)

Mr. John Lawson (Daisy, Ltd.) was proceeding to speak, when the Chairman asked if it was necessary that the discussion should be continued, whereupon Mr. Lawson remarked that he merely intended to say that the manufacturers whose medicines are chiefly sold in broken bulk are quite satisfied with the present practice, and indeed value this concession, if it is a concession, very highly; but knowing how controversial the subject is he refrained from speaking further.

Mr. Higgs then withdrew his motion.

On the motion of Mr. P. F. Rowsell (Exeter), seconded by Mr. Kutnow, the Chairman was thanked for presiding, and the proceedings terminated.

C.D.A.

The thirteenth annual meeting of the Chemists' Defence Association was then held, Mr. P. F. Rowsell, J.P. (Exeter), presiding. On his motion the annual report and financial statement were adopted. He commented upon the proposed alteration of a rule whereby the reserve fund is increased from 5,000*l.* to 10,000*l.*; he hoped that it would ultimately be 20,000*l.* Another rule alteration enables the Association to provide members with legal aid when they have to defend themselves before National Insurance Committees or Commissioners. Mr. Bunker seconded the motion, and Mr. Feaver Clarke and Mr. MacEwan commented upon the satisfactory condition and service of the Association. Mr. C. B. Allen also commended the C.D.A. to the trade. The discussion was also taken part in by Mr. Knight, Mr. Brumwell, and Mr. Milner, and the necessary resolution for the alteration of the rules was carried.

The Chairman intimated that letters had been received from members asking that a veterinary section should be set up. Some years ago similar letters were received, and the proposal was made known to the trade, but only eight applications for membership of the section were received. It was now proposed that a circular should be issued setting forth that the directors were prepared to start a veterinary section if 250 members could be obtained. The formation of the section was agreed to.

On the motion of Mr. Milner, seconded by Mr. Kirkpatrick, the directors were re-elected. Mr. A. G. West (of Messrs. West & Drake) was reappointed auditor. On the motion of Dr. Barnes, seconded by Mr. Higgs, the directors were thanked for their past services. Mr. J. P. Gilmour briefly acknowledged the compliment.

THE EXPORTS OF BEESWAX from the Dominican Republic during 1913 amounted to 212,572 kilos., against 266,801 kilos. in 1912 and 306,928 kilos. in 1911.

SUMMER OUTINGS.

Chemists' Associations.

The offieial ramble of the West Ham, East Ham, and Metropolitan Essex Distriet Pharmaeists' Association, held on July 9, took the form of an outing in Epping Forest, a company of twenty-one following the leadership of Mr. Soper. The party travelled by rail to Theydon Bois, whence they wandered through the Forest, emerging finally upon the main London-Epping Road, thence by Copped Hall Green to Copped Hall Farm, where tea was served. After tea, the Forest ramble was eontinued through the Debden Green distriet to Loughton Station, where the company entrained for home. The weather was exceedingly warm, and the cool Forest shade was most welcome to all the wanderers.

On Wednesday, July 8, the first social function of the Durham County Pharmaeists' Association was held at Durham. This was a joint pienie with the Sunderland Association. The weather being ideal, the holiday was

The Durham and Sunderland Party.

Top Row (left to right) —Mr. Bowman, Mr Cubey, Mr. Low, Mr. Dalton, Mr. Metcalfe, Miss A. M Ashby, Miss Cooper, Miss Purse, Miss Cherrett, Miss Ridgeway, Mr. Simpson, Mr. Long, Mr. Hudson, Mr. Cherrett.
Second Row.—(——), Mr. Brown, Mr. Todd, Mrs Bowman, Miss M. Ashby, Miss J Emmerson, Mrs. Hudson, Miss Lawson, Mrs. Hodgson, Mrs. Cherrett, Mr. C Hodgson, Mr. F. Phillips Mr. Smales.
Third Row.—Mrs. Low, Mrs Harrison, Mrs. Dalton, (——), Mrs. Jones, Mr. A. D. Purse, Mr. Jack Purse.
Fourth Row.—Mr. Forster, Mr. A. H. M. Purse. Mr J. G. Harrison, Master Alfie Purse, Mr. and Miss Jones, Mr. Backhouse.

spent in visiting the Castle, Cathedral, and a trip on the river in a motor-launch. Afterwards tea was served at the Old Durham Garden Pleasure Grounds, and the rest of the evening spent in sports.

Members and friends of the Cardiff Association had a most enjoyable outing to Southerndown on July 8. The company

The Cardiff Party.

Fourth Row.—Messrs. Benjamin, Poole, Jones, Murray.
Third Row.—Miss Jenkins, Mrs. Thomas, J B. Thomas, Mrs. Benjamin, Mrs. Williams, Mr. Poole. Mr Evans, Mr Mogg.
Second Row.—Mr. Evans, W. R. Williams, Mr. and Mrs. Ewens, Mr. Thomas, jun., Miss Thomas, Miss Hagon, Miss Jones, Mrs. Murray, Mrs. Evans, Leo Joseph, J.P., Mr. and Mrs. Gaen. Mr. D. Thomas.
First Row.—Master and Miss Thomas.
Sitting.—Master Evans, Misses Maisie and Marjorie Murray.

travelled by *char-à-banc, viâ* Cowbridge and Bridgend, the weather being all that could be desired. After tea, provided at the Marine Hotel, the party visited Dunraven Castle, and were conducted through the grounds and gardens. Proceeding thenee through the woods, the "Lady's Bower," whieh overlooks the Channel, and the Tower were visited, and the company were photographed at the conservatory. On passing the front of the Castle the Dunraven crest, which is a erown and two ravens with the following inscription, *Quæ sursum volo videre*, was pointed out. The party gathered at the Marine Hotel for the return journey, a most enjoyable run concluding a successful day's outing.

At Hastings.

The annual excursion of the employés of Messrs. Stevenson & Howell, Ltd., whieh took plaee on June 27, was, as usual, an unqualified success. The venue was Hastings, which was reaehed soon after ten o'clock, the party travelling by speeial train from London Bridge. Dinner was served at the Castle Hotel, Mr. A. J. Croxford oeeupying the chair. After the loyal toast had been honoured, the toast of "The Direetors of the Company" was proposed by Mr. C. A. Wreneh, and was reeeived with acclamation. Mr. Croxford, in responding, referred to the very agreeable relations which exist between the directors and the various members of the staff. The afternoon was pleasantly oeeupied by motor drives through the surrounding distriet, tea being served on the return. Favoured with brilliant weather, the outing was voted a thoroughly enjoyable one in every respeet.

In the Lake District.

To commemorate the sueeessful conclusion of the Liverpool ehemists' pienie, Mr. John H. Robinson (Seeretary) entertained a small party of friends on July 8 to a most delightful day in the Lake distriet. The party, consisting of Mr. H. Humphrey Jones (President of the Liverpool Chemists' Association), Mr. E. Prebble, Mr. G. M. McLoughlin, and Mr. E. B. Davies, with Mr. Robinson, entrained at 7.55 A.M., arriving at Windermere at 10.50, and, after a cursory glance round Windermere and Bowness, took the steamer from the latter place to Ambleside, where they enjoyed the beautiful scenery. On arriving at Ambleside ample justice was done to a sumptuous meal already arranged by Miss Robinson. Mr. Robinson, who is a native of Ambleside, proved an authority on the antiquities and topography of this most eharming spot. A beautiful drive of about twenty-five miles, visiting many plaees of interest, ineluding beautiful Grasmere and its old church, filled in the afternoon. The party returned to Ambleside for tea, from thenee drove to Windermere, and arrived in Liverpool at midnight.

At Eastbourne.

On July 8 the direetors of Messrs. John Gosnell & Co., Ltd., took their staff to Eastbourne for their annual dinner and beanfeast. Leaving Victoria by the nine o'clock train, the party arrived at their destination about 10.45. The inelemency of the weather was diseouraging, but soon the rain gave place to sunshine, and when the party met at the Grand Hotel at 1.30 for dinner the day was all that could be desired. The dinner was worthy of the high reputation of the Grand Hotel, and was partaken of with the fullest enjoyment. Mr. C. P. Gosnell, the managing director, gave the usual loyal toasts, which were drunk with musical honours. Mr. A. J. Wilson, the eompany's South African representative, then proposed the toast of "The Company," and stated that, on seeing the inner workings of the house, he had been much struck with the spirit of eontentment and good feeling which everywhere existed, and this he eonsidered a valuable asset towards future suecess. Mr. Ralph P. Gosnell suitably replied, and then proposed the toast of "The Travellers and Agents," Mr. A. W. Jones, the London representative, replying. After dinner various amusements were patronised, and many of the party, who are members of the "Cherry Blossom" Swimming Club, whieh is one of the eompany's forms of reereation for their staff, were seen enjoying that healthy amusement in the sea. The party again met at the hotel for tea at 5.30, returning to London by the 7.50 train, and arriving home about 9.45, after an extremely enjoyable day.

A Penny-in-the-Slot Machine for the supply of holy water has recently been discovered in an Egyptian temple. It dates from the second century A.D., and was worked by a five-drachma pieee. Verily, there is nothing new under the sun.

The Overcrowded Medical Profession.—The constant inerease in the number of students who now flock to Vienna for the purpose of studying medieine is causing serious alarm. Steps are being taken to cheek the influx of young men who seek to enter an already overcrowded profession.

TRADE REPORT.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

42 Cannon Street, E.C., July 16, 6.30 p.m.

THERE is little of interest to report in the drug and chemical markets, changes in values having been few. The hot weather still keeps aërated-water makers busy, and there is an active demand for the requisite materials. Both citric and tartaric acids are very firm, and the small arrivals are quickly absorbed by consumers. Cocaine hydrochloride, which had sunk to a quite unremunerative level, has been advanced 4*d.* per oz. Thymol is also dearer and very scarce, German makers being off the market. Ergot is more freely offered from primary sources at easier prices. Sudan acacia sorts are firm, and olibanum is steady. Opium is dearer with Persian in good demand. Morphine is also firm and in upward tendency, while codeine was advanced a further 7*d.* to-day. Menthol is steady, but very quiet. Rose-petals are again higher. Among essential oils, a poor crop of English peppermint is predicted, and prices are likely to be dearer. No interest is yet shown in new American tin oil, with lower offers from the other side. Japanese dementholised is nominal. Lemon oil is again in downward tendency. Bergamot is rather dearer, and orange unaltered; distilled lime oil is firm and in fair demand. Chinese star anise and cassia oils are quiet. The following are the principal alterations of the week :

Higher	Firmer	Easier	Lower
Ammonia sulphate	Bergamot oil	Benzols	Damiana leaves
Cocaine (makers')	Copper sulphate	Euonymus (c.i.f.)	Ergot
Codeine and salts		Lead-products	Peppermint oil (Amer.)
Cumin-seed (Morocco and Malta)		Lemon oil	Wax, Japan (c.i.f.)
Opium		Senega (new crop)	
Rose-petals		Serpentary (c.i.f.)	
Thymol		Spermaceti	

Cablegram.

NEW YORK, July 15.—Business in drugs is fair. Opium is dearer at $7.45 per lb. for druggists' by single cases. Peppermint oil in tins is 25c. per lb. cheaper at $3.50 per lb. Menthol is steady at $2.98. Buckthorn bark is dearer at 20c. Short buchu-leave have been reduced to $1.40, and hydrastis is also lower at $4.50. Mexican sarsaparilla is easier at 32c., and so-called American saffron is cheaper at 48c. per lb.

London Markets.

ALOES.—Arrivals comprise ten cases in monkey skins of fair quality. No arrivals from the Cape this week. Curaçao in cases is quoted 42*s.* 6*d.* c.i.f. to arrive.

AMERICAN DRUGS.—The following are current quotations for original packages of herbs, leaves, roots, etc., for shipment from the U.S.A. on c.i.f. terms, unless otherwise indicated : *Barks.*—Bayberry, 35*s.* per cwt.; black haw of root, 8*d.* per lb.; dogwood, 4½*d.*; elm, 5¾*d.*; euonymus, 1*s.* 7*d.*; sassafras, 7*d.* (ex warehouse); wild cherry, 4*d.* net, to arrive; witch hazel, 2¾*d.* to 3*d.* per lb. *Herbs.*—Lobelia, 4¾*d.*; scullcap, 9*d.* *Leaves.*—Damiana, 5½*d.*; witch hazel, 3½*d.* *Roots.*—Blue flag, 7*d.*; burdock, 4¾*d.*; elecampane, 4¼*d.*; gelsemium, 3½*d.*; golden seal (hydrastis), 19*s.*; leptandra, 6¼*d.*; mandrake, 40*s.*; sanguinaria, 6¼*d.*; serpentary, 1*s.* 8*d.*; stillingia, 3½*d.* per lb.

ANISE OIL (STAR).—Retail sales of "Red Ship" brand have been made at 5*s.* 3*d.* per lb. on spot.

BALSAM CANADA is offered at 4*s.* 6*d.* per lb. net, which is cheaper than our previous quotation.

BALSAM PERU.—Sales of genuine quality have been made at 5*s.* 6*d.* per lb.

BENZOIN.—The *Fauvette* has brought 38 cases *via* Bordeaux, probably Siam. Arrivals of 40 cases Sumatra, and 26 cases of Palembang have also taken place.

BERGAMOT OIL is firmer at from 16*s.* 7*d.* to 17*s.* per lb. c.i.f. It is stated that some exporters who sold in blank have had to cover at higher rates in Reggio, this accounting for the advance. Spot price is about 17*s.*

A monthly report from Messina states that prompt has receded a trifle, but has stiffened during the last few days. At Reggio a public warehouse has been opened, on the warrants of which the banks make advances. This will probably contribute to strengthen the market. Prospects for new crop are favourable.

CAMPHOR, CRUDE.—Business has been done in Chinese at 160*s.* per cwt. spot.

CAMPHOR, REFINED.—Japanese 2½-lb. slabs have been sold to arrive for September-October shipment at 1*s.* 7¼*d.* c.i.f., and near at hand at 1*s.* 7*d.* c.i.f.; the spot value is 1*s.* 7½*d.* 1-oz. tablets are quoted at 1*s.* 8*d.*, and ¼-oz. at 1*s.* 8½*d.* per lb. on spot.

CANARY-SEED.—Turkish on spot is quoted 90*s.* to 92*s.* 6*d.*, and for September-October shipment 75*s.* per quarter c.i.f. terms. Good Morocco on passage has been sold at 90*s.* c.i.f. terms.

CASCARA SAGRADA is quiet, with bark offering to arrive at 32*s.* c.i.f., and spot at 36*s.* net.

CASSIA OIL.—Quiet, with sellers on the spot at 2*s.* 10*d.* for 70 to 75 per cent., 3*s.* for 75 to 80 per cent., and 3*s.* 2*d.* for 80 to 85 per cent. c.a.

CHAMOMILES.—The crop of new Belgian flowers is expected to be normal, and will be ready about the second week in August.

CITRIC ACID remains very firm at 2*s.* 5*d.* per lb. for prompt delivery.

COCAINE.—There has been a general advance on the part of the makers of 4*d.* per oz., the quotation for 175-oz. lots of hydrochloride on contract being 4*s.* 5*d.* per oz. Second-hands quote slightly under this figure.

COD-LIVER OIL.—Business is quite on a limited scale, agents offering finest brands of Lofoten oil at from 70*s.* to 71*s.* per barrel c.i.f.

CODEINE.—The makers have to-day (Thursday) advanced their price by a further 7*d.* per oz., making the basis price of the pure crystals and precipitated, in contract quantities of 175 oz., 12*s.* 10*d.* per oz. net; hydrochloride and sulphate are 11*s.* 5*d.*, and phosphate 10*s.* net.

COPPER SULPHATE is firmer at from 20*l.* to 20*l.* 5*s.* per ton for the usual Liverpool brands for prompt delivery.

CUBEBS.—The exports from Java from January to April 1914 amounted to 52,360 kilos., against 32,392 kilos. during the same period of 1913.

CUMIN-SEED is much dearer, 44*s.* per cwt. having been paid for ordinary old-crop Morocco on the spot. New crop has been sold at 38*s.* c.i.f. terms, but there are no further offers. New crop Malta was sold last week at 37*s.* 6*d.* c.i.f., but prices have since advanced, and 41*s.* to 44*s.* is now quoted.

DRAGON'S-BLOOD.—A small parcel of bright seedy lump has arrived at the warehouse.

ERGOT is offered more freely, including Russian for prompt shipment at 1*s.* 6½*d.* c.i.f., and Spanish of new crop for August-September shipment at 2*s.* 2*d.* c.i.f.

EUCALYPTUS OIL has been slow of sale for a lengthy period; 75 per cent. eucalyptol is quoted 1*s.* 3½*d.* to 1*s.* 4*d.*, as to quantity.

GAMBOGE.—A parcel of 24 cases Siam pipe has arrived in the warehouse.

GUM ACACIA.—Sudan sorts continue firm, with sales of fair at from 38*s*. to 40*s*. per cwt. on the spot. To arrive, 37*s*. 6*d*. c.i.f. Khartoum to London is quoted. East Indian gums are firm, genuine Aden being scarce and wanted. Senegal is firm, it being difficult to obtain offers to arrive.

IPECACUANHA is quiet, with sellers of fair Matto Grosso at 7*s*. 9*d*. per lb. Cartagena 6*s*. 9*d*. and East Indian 7*s*. 10*d*. Twenty bales from Monte Video reported last week have arrived in the warehouse, also a few packages of Cartagena.

LEMON OIL is still on the easy side, prices for prompt shipment being from 7*s*. to 7*s*. 6*d*. per lb., and on the spot from 7*s*. 8*d*. to 8*s*. is quoted.

LIME OIL.—West Indian distilled has been sold at 5*s*. 3*d*. per lb., being very scarce, but it is anticipated that the higher prices will bring larger supplies later; 9*s*. 9*d*. net has also been paid for hand-pressed.

MENTHOL is quiet and unaltered, with spot sellers of Kobayashi-Suzuki at 10*s*. 3*d*. per lb., and to arrive sales of August-September shipment have been made at 10*s*. 6*d*. c.i.f.; for February-April shipment 9*s*. 9*d*. c.i.f. is quoted.

MINT OIL.—Japanese dementholised is nominal at 4*s*. on spot, July shipment of Kobayashi-Suzuki offering at 5*s*. 10½*d*. c.i.f.

MORPHINE.—Makers continue to quote 9*s*. to 9*s*. 3*d*. per oz. for hydrochloride powder as to quantity, with second hands obtainable at 8*s*. 10*d*. Makers, however, prefer to book for forward delivery only.

MUSK.—Steady, with thin blue-skin Pile I Tonquin pod offering at 70*s*. per oz., and old style of good quality at from 57*s*. 6*d*. to 60*s*. per oz. Cabardine of middling quality is steady at 18*s*. per oz.

NUX VOMICA.—About the only offer in the market is one of 14*s*. 6*d*. c.i.f. for February-April (1915) shipment.

OILS (FIXED).—*Linseed* on spot closes at 25*s*. in pipes and 25*s*. 3*d*. in barrels. Crude *Cottonseed* is quiet at 28*s*. 9*d*., ordinary refined pale is 28*s*. 3*d*., and sweet refined 33*s*. Ceylon *Coconut* is easy at 39*s*. for Ceylon and 50*s*. for Cochin. *Rape* is quiet at 30*s*. for ordinary brown crude, and at 31*s*. 9*d*. for English refined in casks. Lagos *Palm* oil is firmer at 30*s*. in Liverpool. *Petroleum* on the spot is quoted at 7*d*. for Russian, 7¼*d*. for American, and 8¼*d*. for water-white. *Lard* oil is quoted at from 40s. to 53*s*. per cwt., *seal* oil 19*l*. to 27*l*. 10*s*. per ton, *whale* oil 20*l*. to 27*l*., bright *sperm* oil 26*l*. to 29*l*., cod oil 20*l*. to 25*l*. per ton, *Neat's foot* oil 2*s*. 6*d*. to 3*s*. 10*d*. per gallon, *ground nut* oil 38*s*. 6*d*. to 47*s*. per cwt., *Stearine* 41*s*. 6*d*. to 58*s*.

OLIBANUM.—Steady, with sales of good fair drop at 12*s*. and fair siftings at 20*s*. per cwt.

OPIUM has further advanced on continued buying at primary sources, the most recent sales including ten cases 11 per cent. at 17*s*. 6*d*., and 20 cases 11½ per cent. at 18*s*. c.i.f., 18*s*. 3*d*. being the closing quotation for this test. On the spot Turkey druggists' has been sold at 18*s*. 6*d*. for 11¼ per cent., stock being extremely small. In Persian a good business has been done, up to 20*s*. having been paid for good test on the spot. About 343 cases of Persian opium, damaged by sea-water, ex *Seistan* (which met with a collision) will be offered by public auction shortly on underwriter's account.

A Constantinople correspondent writes on July 11 that the weather, after having become fine at the beginning of the week, has again changed, and to-day we hear by telegram that there is continuous rain in the Interior. Sales have been made in Smyrna at prices which a month ago would have been thought prohibitive. During the week 13 cases druggists' sold at from ptrs. 210 to 245 and four cases Malatias at ptrs. 253. The arrivals in Constantinople amount to 72 cases, against 129 cases last year, and the stock is 258 cases, against 302 cases.

ORANGE OIL.—Primary advices report business in sweet oil for prompt shipment as small and prices stationary. The prospects for the new crop continue favourable. With a small demand for bitter, prices are lower. Agents in London quote either sweet or bitter at 8*s*. c.i.f.

ORANGE-PEEL.—Small sales of fair Tripoli strip have been made at 1*s*. 11*d*. per lb.

PEPPERMINT OIL.—As is usual at this period of the year, interest is but slight as regards the spot market for American, quotations for which are nominal at from 14*s*. 6*d*. to 16*s*. per lb. net; to arrive the new crop of tin oil is quoted for autumn shipment at from 10*s*. 3*d*. to 11*s*. Our New York cable shows a reduction of 25c. per lb, to $3.50. The quotation for H.G.H. is 21*s*. ex warehouse, and autumn delivery 16*s*. *Todd's* crystal white is 12*s*. net, to arrive in the autumn. Owing to the poor outlook for English herb crops (q.v.), genuine peppermint oil is likely to be much dearer this season, 35*s*. per lb. being talked of.

RHUBARB.—Small sales of good medium-size round Canton have been made at 3*s*. 6*d*. Also ordinary flat High-dried and good rough round High-dried at 10*d*. per lb.

ROSE-PETALS.—The United States have practically cleared the market for Dutch, the purchases including 4,000 lb. in a line. Business has been done at 4*s*. 6*d*. c.i.f., but 4*s*. 9*d*. is now asked, and that for very limited quantity.

SEEDLAC.—Business has been done in slightly specky quality at 63*s*. 6*d*. and darker ditto at 60*s*. per cwt.

SENEGA.—There are offers of new crop to arrive at 2*s*. 3*d*. c.i.f., and on the spot 2*s*. 7½*d*. to 2*s*. 8*d*. net is quoted.

SHELLAC.—Quiet, with fair TN Orange quoted at 63*s*., and free AC Garnet at 64*s*.; to arrive TN Orange for July-August shipment has been sold at 62*s*. 6*d*. c.i.f., and sellers of AC Garnet for October-December quote 63*s*. c.i.f. Futures are cheaper on the week, the sales including August at 62*s*. to 62*s*. 6*d*., October 64*s*., December 63*s*. 6*d*. to 64*s*. 6*d*.

SOY.—Supplies appear to be concentrating into the hands of one holder; further business has been done in Seuloong brand at 1*s*. 7*d*. per gal.

SPERMACETI.—American refined is cheaper at from 9*d*. to 9½*d*. per lb. ex warehouse.

SPICES.—At auction no *Cloves* offered; privately sellers of fair Zanzibar on spot quote 6⅛*d*.; to arrive, June-August shipment, there are buyers at 5¾*d*. c.i.f. d.w., and June-August delivery buyers at 6*d* *Chillies* were steady at auction, seven bags East African selling at from 62*s*. to 68*s*.; privately 70*s*. is quoted for Japanese. Of *Cinnamon*, 20 bales Ceylon sold without reserve at 10*d*. for coarse thirds, and 9*d*. for fourths; 59 bags coarse barky chips sold at 1¾*d*., and shavings at 1*d*.; 150 boxes *Cassia lignea* were bought in at from 30*s*. to 40*s*. *Ginger* met with a slow sale; of 7 cases Calicut offered, 4 sold at 57*s*. 6*d*. for medium cut; 772 bags small brown Calicut rough were mostly bought in at 30*s*., a few packages of medium cut selling at 57*s*. 6*d*. Both West Indian *Nutmegs* and *Mace* were steady. *Pepper* at auction was slow, 414 bags good Tellicherry being bought in at 5*d*. to 5⅛*d*., and 47 bags Mangalore at 8*d*. to 9*d*. for small to good bold. Privately the market for black Singapore is firm at 5*d*. for fair; to arrive July-August and August-October shipment have been sold at 4 11/16*d*. c.i.f. The value of *white* Singapore pepper on the spot is 8⅝*d*., and fair Muntok 9⅛*d*.; to arrive, sellers of Singapore for August-October shipment quote 8⅛*d*. Privately, sellers of *Pimento* quote 1⅞*d*. spot and 16*s*. c.i.f.

TARTARIC ACID is very firm and in good demand, English being 1*s*. 1½*d*. and foreign 1*s*. 1*d*. per lb.

THYMOL is dearer and very scarce at 9*s*. to 9*s*. 3*d*. from dealers' hands. German makers do not appear to offer.

TONKA-BEANS.—With a plentiful supply, 1*s*. 9*d*. will buy fair black Para, and 2*s*. 6*d*. frosted Surinam.

TURPENTINE is about steady on the week, with a fairly active market, American on spot closing at 34s. and August 34*s*. 1½d. French is quoted 33*s*. 6*d*. to 34*s*. and Russian ordinary and rectified 24*s*. 6*d*. to 26*s*. 6*d*.

WAX, BEES'.—A large quantity of Sierra Leone has changed hands in Liverpool, about 400 packages at from 7*l*. 10*s*. to 7*l*. 11*s*. 3*d*. per cwt.

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WAX, JAPANESE, remains steady at 48*s.* on the spot, and to arrive business has been done for July-August shipment at 41*s.* c.i.f. being cheaper.

Manchester Chemical Market.

July 14.

The holidays have affected attendance on the chemical side of the Exchange, and, owing to increasing short time in Lancashire and a continuance of the holidays in the out districts, demand in all departments is dull, and forward prospects are by no means good. Sulphate of copper continues quietly steady at 20*l.* 10*s.* to 20*l.* 12*s.* 6*d.* per ton, delivered Manchester. There are no quotations for forward delivery under this figure except at 5*s.* per ton higher; and the raw metal prices seem to justify it. Acids show little change; picric is quoted 1*s.* per lb. for crystals. In alum there is a quiet feeling; loose lump is quoted 6*l.* per ton, with 2*s.* 6*d.* extra for casks. Sulphate of alumina, 14 per cent., 4*l.* 10*s.* per ton. Carbonate of ammonia, 3⅜*d.* per lb. White powdered arsenic is 13*l.* 10*s.* to 13*l.* 15*s.* per ton, delivered Manchester. Borax, British refined crystals, 17*l.* 10*s.* per ton. Green copperas in bulk is quiet at 15*s.* per ton, on rails, Manchester, and cake 1*l.* 2*s.* 6*d.* There is not much doing in coal-tar products. In sulphate of ammonia the feeling is firm at 10*l.* 7*s.* 6*d.* to 10*l.* 12*s.* 6*d.* f.o.r. Manchester, and forward 5*s.* per ton more.

Heavy Chemicals.

The general tone of the heavy-chemical market is steady, though business is rather quiet, the demand for miscellaneous products more particularly being on the slack side, which to some extent is due to various trade difficulties. New business is somewhat slow, the main movement being against contracts. The main alkali products are steady at late rates, and the output of crystallisable products is being interfered with by the weather.

SULPHATE OF AMMONIA is very distinctly firmer since last quoted, and the outlook altogether is better. Recent advances have been well maintained, and buyers show more disposition to purchase both on prompt and forward account. Present nearest figures are: London terms, 25 per cent., 10*l.* 10*s.* to 10*l.* 12*s.* 6*d.*; Leith, 11*l.* to 11*l.* 2*s.* 6*d.*; Liverpool, 10*l.* 17*s.* 6*d.* to 11*l.*; and Hull, 10*l.* 15*s.* to 10*l.* 17*s.* 6*d.* For forward delivery latter end of this year and first part next year a premium of from 5*s.* to 7*s.* 6*d.* per ton is being asked.

BENZOLS are weak, and there is a very poor foreign demand, so that values show decline. Present figures: Naked, 90 per cent., 10½*d.*, and 50 per cent., 10*d.*; North, 8½*d.* to 8¾*d.* and 9¼*d.* respectively.

LEAD-PRODUCTS.—The tone here is rather easier. White lead, 26*l.*; red lead, 21*l.* 15*s.* to 22*l.*; and pig lead, 20*l.* to 20*l.* 5*s.* per ton Tyne.

Japanese Mint Oil.

The "Japan Daily Herald" of June 23, in the course of a short article on the Japanese mint-trade, gives some particulars of a dispute between the mint-growers in Hokkaido and a well-known British house with branches in Japan. The details, which are taken from the Yokohama "Boyeki," are as follows: A few years ago a number of mint-brokers, in view of the increasing production in Hokkaido, proceeded to that island, and, "taking advantage of the ignorance of the farmers, resorted to very dishonest practices." What they were the story does not say. The Hokkaido Government and the Hokkaido Agricultural Institute, fearing that this would lead to the abandonment of mint-plantations, intervened, and eventually arranged a contract between the growers and the British firm in question to the effect that the latter would undertake the entire preparation and export, the growers to share profits according to the amount of sales of the product. The contract naturally dealt a serious blow to the alleged dishonest brokers, and they have since been seeking an opportunity to persuade planters to veto the contract. As a result, says the "Boyeki," the relations between the British firm are not so good as they might be, and an attempt at mediation by the Hokkaido Government and the Agricultural Institute appears to have failed. The British firm recently decided to resort to legal measures to recover the difference between the money advanced and the value of the mint offered by the planters, while the latter have asserted that the British house has monopolised the profits. Meanwhile the group of brokers, who are believed to be at the bottom of the trouble, are now seeking to secure the trade which formerly assured them such good profits.

English Herb-crops.

Messrs. W. Ransom & Son write that they have nearly finished cutting the *Belladonna*, which is a fair crop, but they need all they can get to make up for last year's shortage. *Henbane* is all cut, and is a very poor crop. *Lavender* looked very well until the severe frost at the end of May, which did a lot of damage, about half of one of the best fields being cut right off. *Chamomiles* are just being distilled, and the firm have a nice sample of new oil. *Peppermint* is a short crop, much of it being killed by frost in winter. *Poppies, cucumbers* (ecbalium), *rosemary,* and other crops look promising.

Messrs. M. & A. C. Bing write that the *lavender* is looking well, and should show a good yield if the weather continues favourable. Unfortunately, the drought, which is suiting lavender, is not well for *peppermint,* and we are afraid there will be a small crop.

From Messrs. Potter & Clarke's herb-farms we hear that yarrow, comfrey, marshmallow, wormwood, southernwood, and rue are good and plentiful. Horehound, pennyroyal, savin, tarragon, savory, golden rod, thyme, sage, and belladonna are likely to be normal crops. Chamomiles are almost a failure; germander, aconite, red sage, and henbane are poor. Blight and spittle-fly have attacked lavender and roses.

Messrs. J. & G. Miller write:

PEPPERMINT.—Very little was planted out this season, and that little has done badly; also during the previous two seasons small quantities only were planted out, and most of the older plantations have entirely failed, so that it is anticipated the total crop will be the smallest for the past thirty-five years. Prices in all probability will be considerably higher for genuine oil, although adulteration of the article with foreign peppermint oils will prevent values advancing to anything like those warranted by the short crop. In any case, the crop must be a small one for several years to come, owing to several bad planting-out seasons.

LAVENDER looks well, but the acreage is still rather small.

CHAMOMILES will be a small crop owing to the very dry season.

Messrs. Stafford Allen & Sons, Ltd., write:

LAVENDER looks promising. It will be rather earlier than usual. The plants have recovered nicely from the effects of the late frosts in the spring.

PEPPERMINT.—This will be a short crop. The absence of rain has been very detrimental, especially to the young mint, but we quite expect the oil will be of good quality this year.

CHAMOMILES look fairly well at present, but these also would be much benefited by more rain.

DILL is rather forward, but short on the straw. There should be a fair crop if harvesting conditions are favourable.

HENBANE has been a good average crop, and has produced a good sample of dry tops. It is too early to say anything definite about the first-year plant, but it is all right at present.

BELLADONNA has been a short crop. The young plants are looking fairly well, but want rain.

FOXGLOVE will be a fair average crop, and the potency of the leaves is about normal.

HEMLOCK, ACONITE, and VALERIAN are about the average.

Holland's Distillery write:

PEPPERMINT.—We have planted out about twenty-two and a half acres of new mint this year—that is, plants drawn from the beds of mint of last season. We have always been threatened in the past with dry weather prevailing when planting out, with the result that 30 per cent. of the young plants have died off through want of moisture. This year we took the chance of avoiding a repetition by having a very powerful pumping engine, which drew the water from the dykes surrounding our fields, and thoroughly moistened the ground before planting. We also took the precaution to have the fields thoroughly cleaned beforehand this last winter. We are pleased to state that the experiment turned out very well indeed.

LAVENDER.—We have a small acreage of this out, but having destroyed all our bushes when the price of the oil was unremunerative, with the exception of a few thousand for stock purposes, we shall have to wait a year or two before we can get back to anything like a big display of bushes. What little oil we shall produce will be worth 60*s.* per lb.

DILL is exceptionally forward this year, and we shall commence cutting in another three weeks' time. We expect a fair average yield per still.

ROSEMARY.—Owing to the difficulty of disposing of this oil at a fair figure, we have decided to discontinue its cultivation after this season. We have always found that it is more profitable to destroy good bushes and replace by corn crops than continue to cultivate expensive oils, which will not convince perfumers of its merits against the cheap Continental rosemary oils.

Correspondence

Memoranda for Correspondents.

All communications must be accompanied by the names and addresses of the writers, otherwise they cannot be dealt with.

Queries by subscribers on dispensing, legal, and miscellaneous subjects connected with the business are replied to in these columns if they are considered to be of general interest.

Correspondents are requested to write each query on a separate piece of paper. Every endeavour is made to reply to queries without delay, but insertion of the replies in "the next issue" cannot be guaranteed, nor, as a rule, can they be sent by post.

Letters submitted for publication (if suitable) should be written on one side of the paper only. Their publication in "The Chemist and Druggist" does not imply Editorial agreement with the opinions expressed.

The New British Pharmacopœia.

SIR,—As the time for the appearing of a new Pharmacopœia draws near, I write to express the hope that in the production of the book itself some thought may be given to the wear and tear to which the average chemist's B.P. is subjected. The printing of the present B.P. is good, but the quality of the paper and binding leaves much to be desired. My own copy has been a wreck for years. Can the publishers not give us a book that will stand daily use without falling to pieces in a year or two? If it is a question of profit, I think few of us would grudge an extra shilling or so for a book of really serviceable construction. Yours faithfully,

Grantown-on-Spey. JAMES KERR.

Drug-Tariff Reform.

SIR,—Your readers do not get away from the four-tenths question. Is this the only reform desired? A few that occur to me off-hand are:

(1) How to arrange that rushes of prescriptions between the hours of 6.30 and 7.30 can be avoided.

(2) How can the quality of items in the Tariff be guaranteed—say, ol. menth. pip., pulv. rhei, inf. gent., etc.?

(3) Devise a system which will give equal treatment to every chemist on the panel, and to every item dispensed, apportioning equitably the profits.

Then, after a short time, how to avoid complications caused by introduction of metric weights and measures. Harking back to the four-tenths, Mr. Cormack does not seriously wish us to believe that adding $\frac{7}{15}$ is as easy as adding $\frac{4}{10}$ to get the drachm price?

Yours faithfully,

Wakefield. J. DENTON.

SIR,—It appears to me that an alteration of the undoubted error that Mr. Cormack has found could only give very tiny results. As it does not affect drugs bought in larger quantities and dispensing-fees, a small part only of the account is left. A rectification of the error can affect that small portion in two ways:

(1) It can operate critically upon some amounts over ½*d.* to give an occasional "halfpenny up."

(2) The frequency of these halfpence would increase upon larger items till at about 7*d.* it would be ½*d.* up every time.

Supposing six such items were found per 100 prescriptions (which would be about the mark at a guess), chemists would be 3*d.* up in 3*l.* When we move, let us ask something worth while. Yours faithfully,

MORTAR. (25/14.)

Insurance Prescription-checking.

SIR,—The article by "An Official Checker" on "Prescription-checking" in your issue of July 11 very fairly represents the theory of the subject. How far this agrees with actual practice may be open to question. I would suggest that very much more simple methods could reasonably be adopted, and if these necessitated alterations in the Act itself or in the regulations dealing with Medical Benefit nothing would be lost by fixing solely and entirely the duty of "checking" and "scrutinising" on the administrative staff of the Committee. What happens now is that the checker notes prescriptions of high average value or for excessively costly items or quantities. This can be done in one operation, not two, as agreed to by the London Committees; then the challenged prescriptions are submitted to the Panel Committee, who decide, after, if necessary, hearing the prescriber's views, whether the prescribing is reasonable or not, and recommend the surcharge, or not, of the doctor concerned. This is very effectual, and there is no necessity for placing the onus of doing this on the Pharmaceutical Committee: such a course does not conduce to better feeling between the doctors and chemists. This method, if carried out, will reduce the number of Drug Fund deficiency areas, and if after its application a deficiency still appears, then some other reason than extravagant prescribing must be looked for. Experience shows that the doctors' interest in the Drug Fund is satisfied by this simple process. If the number of prescriptions in any Committee's area is sufficient to engage the services of a chemist checker, then undoubtedly it is to the advantage of that Committee for the easy working of the checking that it be done at home. Failing this, the idea of a central checkery is a good one, and it is possible to make very satisfactory arrangements at a very much less cost than was suggested for Lancashire or has been agreed to by London Committees. Ordinarily the necessity for tremendous detail is not necessary; the cost of each doctor's prescriptions should not be inquired into when they present reasonable appearances; and scrutinising should be exceptional, and not general. Further than this, a checker's duties should include the giving of advice to his Committee as to the prices and conditions allowed in the Drug Tariff. The usurpation of the duties of checking, etc., by the Pharmaceutical Standing Committee can be shown to have had a direct effect in inducing lack of energy in Insurance Committees in the direction of combating extravagant prescribing; and if the Standing Committee had used its efforts in inducing the appointment by Committees of efficient chemist-checkers less would have been heard of drug deficiencies. Yours faithfully,

Wakefield. J. DENTON.

Breaking Bulk.

SIR,—With regard to Mr. Higgs's contention *re* breaking bulk, you say the Inland Revenue do not construe a twist of paper or an unsealed envelope as an inclosure. I submitted the point to a customer "learned in law," who was and is great on Form IV. and any other means of annoying the Government, and he said there was a possibility of a Judge deciding otherwise. Anyhow, he said, the opinions of the Inland Revenue have nothing to do with the matter at all if the case be fought. Their opinions, however good and capable, are no more than other people's unless they have a decision behind them.

In the same number of the *C. & D.*, on p. 43, you report the Recorder at Bradford saying distinctly that what the Commissioners of Excise say has nothing to do with him in the least. He was Judge, not they; and the same would apparently apply to a "selling loose" case if it were raised. The Revenue were wrong in the case that brought Mr. Glyn-Jones fame and, I hope, fortune, and they may be wrong now. My customer instanced the practice of railway companies, who for years placarded up names and addresses of people who had been fined for travelling without tickets, but ceased to do so when someone fought them. Of course, one cannot expect the proprietor of a popular patent to take steps to enforce Mr. Higgs's view of the law, but it would be useful to know if the action of the Inland Revenue has any legal basis. What "legal" right have they to make concessions to one branch of the community? What "legal" right have they to make conditions at all, whether to manufacturers alone or to makers and sellers together. "Administrative precautions," if tested, may be found, like the famous Form IV., to be without a legal basis. If taken on that point it may be found to end in "all" or "none."

Yours faithfully,

Cobham, July 11. W. M. TIMS.

Legal Queries.

The majority of difficulties in regard to trade law are anticipated by the legal information printed in "The Chemist and Druggist Diary," 1914. See especially pp. 469-499.

M.P.S.I. (27/29).—Refer to the paragraph "Medical Practice" in the *C. & D. Diary*, p. 482, for a statement of the law as to the use of the description "Medical Hall." A registered druggist has as much right to it as a pharmaceutical chemist.

Lex (27/21).—About a year ago a customer entered "Lex's" shop, bought a bottle of emulsion, and tendered a paper note in payment. The shop-assistant assumed that the note was for 1*l.*, and gave the change accordingly. Upon unfolding the note after the customer had left the assistant found that it was for 5*l.*, and went in search of the customer. The customer could not be found, and an advertisement in a local paper has failed to trace him. The assistant claims a share in the 4*l.* balance, and "Lex" asks who is entitled to the amount. [In our opinion, applying the principles of English law, neither "Lex" nor his assistant has any legal right to the 4*l.*, which may be claimed at any interval of time by the customer. "Lex" is entitled to the custody of the amount, but he must be prepared to hand it over if it is claimed by the true owner.]

G. E. O. (28/9).—(1) You do not appear to have realised the difference between the *dispensing* of poisons by a registered chemist and the *retailing* of poisons. Except in the case of arsenic (where the prescriptions must be those of a qualified medical practitioner), a registered chemist is by law (Section 17 of the Pharmacy Act, 1868) exempted from the provisions applicable to the retailing of poisons when the poisons form "part of the ingredients of any medicine dispensed." In the case to which you refer the defendant did not dispense, but retailed, the pills containing arsenic. All the knowledge of the customer required by the section is "the name of the person to whom it [*i.e.*, the dispensed medicine] is sold or delivered." (2) Please do not ask us to explain how a limited company as the seller can know the purchaser. The thing works out well in practice, the law providing each company with a superintendent (if it use the title), and each shop with a qualified chemist as a manager; upon these the legal responsibilities devolve. (3) You are wrong in assuming that if pills or any other medicine containing poison are compounded by an unqualified person without qualified supervision no exemption can follow. We know of nothing in the Poisons and Pharmacy Acts to justify the assumption.

Miscellaneous Inquiries.

We do not undertake to analyse and report upon proprietary articles, and when samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how.

We do not as a rule repeat information which has been given in this section during the past twelve months, as it occupies space which can be more profitably utilised for other information. In such cases the numbers are mentioned, and if querists cannot refer to these they may obtain the numbers from the "C. & D." Office at the published price, usually 6d.

J. O. E. (18/43) wants to know the best and easiest way of making the following CORN-SOLVENT, and which extract of belladonna is meant:

Salicylic acid	ʒj.
Ext. of belladonna	ʒss.
Castor oil	ʒss.
Powdered resin	gr. xv
Flexible collodion (acetylated) to	℥j.

Mix.

[Originally green extract of belladonna was meant, but, as pointed out in the *C. & D.*, May 23, p. 107, neither the colour nor the alkaloid of the extract is appreciably dissolved by the ether and alcohol of the collodion. Root extract may be used. Dissolve it and the other ingredients in the alcohol and ether; decant the clear liquor, and in it dissolve the gun-cotton.]

Parmint (9/2).—INCOME-TAX BOOKKEEPING.—The system invented by J. McQueen & Co., Moat Road, Leicester, is specially devised for showing the correct profits of a business for income-tax purposes. Ask McQueens to send you specimen pages.

A. I. J. (23/60).—MAGGOT-OIL.—There is no reason why you should not use cresol solution as a maggot-oil, but what is generally employed is a preparation such as the following:

Mercury perchloride	1 oz.
Methylated spirit	8 oz.
Spirit of tar	10 oz.
Powdered quillaia	2 oz.
Water to make	1 gal.

Dissolve the mercury perchloride in the spirit, and add the quillaia with a pint of water. Macerate overnight, add the spirit of tar and the rest of the water; occasionally shake for a day or two, and strain. For use, two tablespoonfuls is mixed in a winebottleful of water.

Canadian (30/63).—"IRON-BREW" ESSENCE.—The following essence is used in the proportion of 1 to 1½ oz. to a gallon of aërated water to make iron-brew beverage:

Tincture of perchloride of iron...	ʒij.
Clove oil	♏v.
Lime oil	♏xx.
Vanillin	ʒj.
Pineapple essence	ʒiij.
Rectified spirit	℥v.
Distilled water	℥xx.

Mix and filter. This is generally coloured orange with croceine orange and caramel.

S. N. (16/16).—We are not acquainted with the dyes to which you refer. The diluent used in the dye-soaps is a mixture of soap and sodium acid sulphate.

Novice (30/53).—(1) LUNG-TONIC:

Coltsfoot,	
Linseed,	
Horehound, of each	1 oz.
Boiling water	40 oz

Infuse, strain, and mix with—

Liquorice extract	2 oz.
Chlorodyne	10 oz.
Anise oil	1 dr.
Squill oxymel	64 oz.
Poppy syrup	20 oz.
Capsicum tincture	4 oz.
Treacle	64 oz.

Dose: Ten to sixty drops.

(2) The miscible emulsions of chloroform and peppermint are produced by means of quillaia tincture as follows: *Emulsio Chloroformi.*—Chloroform, ʒj.; quillaia tincture, 192 minims; distilled water to ℥xx. *Emulsio Olei Menthæ Piperitæ.*—Peppermint oil, ʒij.; quillaia tincture, ʒvj.; distilled water to ℥xx.

Mirror (30/19).—SILVERING GLASS.—See *C. & D.*, November 23, 1912, p. 65.

O. C. S. (30/20).—The relative proportions of a quarter-plate and a 5×4 negative are different. If we knew the object of your inquiry, we could answer it more exactly.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," July 15, 1864.

Trade Report.

There has been very little business done in drugs throughout the month; the public sales have been small, and generally prices are without material change. Some parcels of Turkey Opium sold at 17*s.* 6*d.* to 18*s.* 6*d.* for good quality. Camphor is rather easier; small sales made at 92*s.* 6*d.* East Indian Gum Arabic is rather dearer for good kinds. Olibanum is a trifle easier. Turkey Gums are rather better. Cardamoms are quiet, at late prices. Small sales of Tinnevelly Senna have taken place at former terms. Cape Aloes are about 1*s.* cheaper; Barbadoes are without change. A fair quantity of Castor Oil sold at former prices—mixed and good pale, 5¼*d.* to 6*d.*; and yellow and straw, 4½*d.* to 4¾*d.* Oil of Cassia quiet, at 9*s.* 3*d.* Small sales of Aniseed at 6*s.* 7*d.* Japan Wax sold steadily; Jamaica sells well at from 9*l.* 5*s.* to 9*l.* 12*s.* 6*d.* Cubebs are quiet. Safflower is fully 5*s.* to 10*s.* dearer. Turmeric is steady; sales made at 28*s.* for arrival. Barks no change; Seneka and Snake Roots rather cheaper. Rhubarb is quiet, at late rates. Galls are firm, and prices looking up. Ipecacuanha is steady, at 8*s.* 2*d.* to 8*s.* 3*d.* Small sales of Jalap at former rates. A large business was done in Gambia [gambier], at 6*d.* to 1*s.* advance, but is now quiet at late prices. Kowrie Gum is rather more in demand, at previous terms. In other goods so little has been done that quotations are merely nominal.

PEARS

KING GEORGE V.

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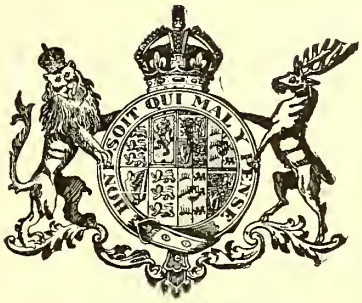
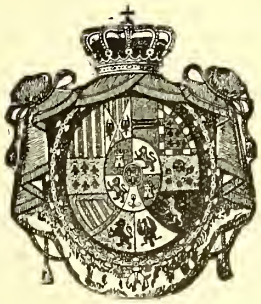
BY APPOINTMENT
TO
Their Majesties

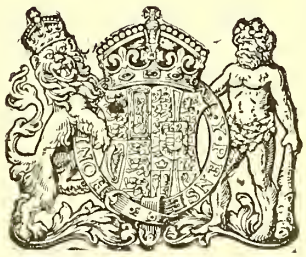


QUEEN MARY.



KING AND QUEEN
OF
SPAIN.

THE LATE
KING EDWARD VII.



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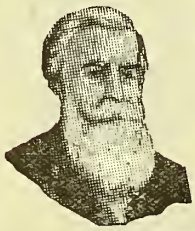

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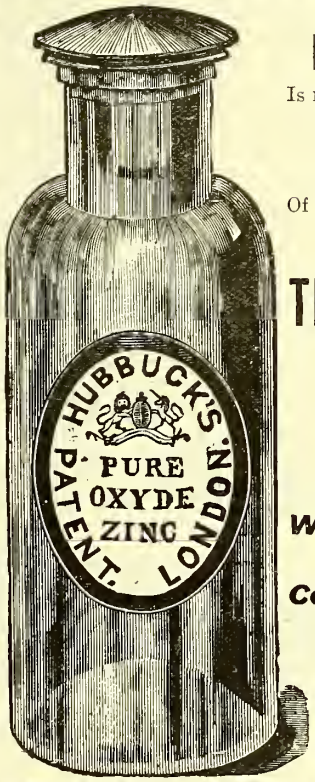

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A COPY OF THIS SUPPLEMENT IS INSERTED IN EVERY NUMBER ISSUED OF "THE CHEMIST & DRUGGIST."

SUMMER ISSUE & CONFERENCE NUMBER

(JULY 25, 1914).

Next week this important Issue is to be published, and, seeing that it has to go to press earlier than ordinary issues, readers will please note that the Publisher cannot guarantee the insertion of any announcement for the Summer Issue Supplement received after

2 P.M. ON THURSDAY, JULY 23.

Any Advertisement received after that time will be inserted in THE CHEMIST AND DRUGGIST SUPPLEMENT of August 1.

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TH Wales; in a populous village, the Business of Chemist d Grocer with Wine Licence; average turnover £2,200; 0; let off £12; price, valuation and reasonable goodwill; hold could be acquired if desired. Apply "E.," c/o Evans scher & Webb, Ltd., Liverpool.

HAM.—For Disposal, a profitable Light Retail and Dis- sing Business, well stocked; full Wine Licence attached; l at stock and valuation. Full particulars on application /4, Office of this Paper.

SEASIDE Business, Kent Coast; season in full swing; good-class Dispensing and Photographics; well-stocked, double-fronted shop, with good house; low rental; returns over £900, increasing; price £550; Manager with view to succession not objected to. 33/63, Office of this Paper.

SOUTHPORT.—Cash trade; turnover averaging £10 week; small rent; good scope; no fancy price asked; merely valuation stock and fixtures. Apply Young, Valuer, Southport.

SUSSEX.—Bargain at £300; good-class Retail and Dispensing Business; mostly cash; little Insurance work; good 6-roomed house and garden; best position in main street; good reason for disposal; rent £35; turnover £700; net profit over £200. "Dogwood" (172/25), Office of this Paper.

ADVERTISER, having excellent opening in Dental, will sell very old-established Chemist's Business at low figure to secure appointment; returns average £850; net £250; rent £55; price £650; good house, small garden; finest business position, small town and lovely district; only bona-fide purchasers need apply with bank references; in same family 50 years; never changed hands; no agents. 175/12, Office of this Paper.

AN excellent Country Business for Disposal in a thriving Yorkshire colliery centre; all modern stock; double-fronted shop with house; lease; turnover nearly £900 per year at exceptionally good profits; principals only. Full particulars on application to 177/307, Office of this Paper.

FINE old-established Business, occupying the best position in rising market town; healthy and picturesque spot near the South Coast; good premises, modernised Pharmacy, and excellent residence; business has been held by same family over 60 years; price £1,400, including valuable lease. Further particulars on application (with references) to "Owner" (175/14), Office of this Paper.

FOR Disposal, through illness; London, E.; genuine concern; exceptional opportunity; returns average £250; no opposition; price £90, or near offer for cash for quick sale; congested neighbourhood; suitable for a large Dispensing practice under the Insurance Act. 179/1, Office of this Paper.

GOOD Business on main road (near Bolton); good position; well stocked, and doing good number of scripts daily; health reason for selling; sell at valuation, about £280. 175/26, Office of this Paper.

NET profit £427.—In consequence of family illness I am reluctantly compelled to sell my most profitable and promising Business at once; returns last year were £1,250, and have increased £200 the six months this year; will accept £800, which, I think, is about value of stock and fixtures; house good, and low rent; growing market town. Apply "Lincolnshire" (33/23), Office of this Paper.

OLD-ESTABLISHED good-class Dispensing Business in fashionable residential part of West of England City; no N.H.I. work and practically no penny or Patent trade; present returns £642; net profit over £260; Pharmacy beautifully fitted and well stocked; owner retiring; price required £650; fullest particulars to applicants supplying references. Apply, 164/14, Office of this Paper.

UNUSUAL Opportunity.—Splendid Country Business, Mixed Agricultural; last year's returns £960; net profits over £300; practically unopposed; price for quick sale £450 inclusive. Apply for further particulars, Southall Bros & Barclay, Ltd., Valuation and Transfer Department, Birmingham.

£150.—Streatham.—Compact, well-fitted shop, doing £10 average, and increasing, under unqualified management; comfortable seven-roomed house; stables in rear, let off £7 10*s.*, leaving net rent £32 10*s.* and rates; big scope for N.H.I. Dispensing; no near opposition and no severe cutting. 179/32, Office of this Paper.

SALES BY PRIVATE TREATY

BY Private Treaty.—Exceptionally good-class Family, Retail, and Agricultural Business with unusually good Specialities having a large and progressive sale; returns are about £3,000, and current year will probably be over; net profit between £500 and £600; very healthy and favourite north-west locality; moderate goodwill will be accepted and valuation of stock and fixtures, in all probably something over £2,000. "Private" (33/22), Office of this Paper.

TO Chemists, etc.—For Sale by private treaty as a going concern Business comprising 3 shops in Manchester districts; will be sold together or separately; shops well fitted and stocked and in excellent neighbourhoods. For further particulars apply Messrs. H. L. Price & Co., Incorporated Accountants, 15 Fountain Street, Manchester.

FOR SALE.

SHOP FITTINGS FOR SALE.

OFFERS are invited for the following Fittings in the shop recently occupied by Paterson & Stewart, Chemists, Castle Douglas:

Lot 1.—Range of Drawers—54 small and 24 large—with glass labels and knobs, with lockers beneath and shelving above drawers; in perfect condition.

Lot 2.—Four small Ranges of Drawers—135 (old).

Lot 3.—14 feet of Shelving.

Lot 4.—Wall Case, 12 ft. 10 in. long, 9 ft. 2 in. high, 4 in. deep in top half, and 9 in. deep in bottom half.

Lot 5.—Dispensing Screen, with mirror centre; 11 ft. long, with 4 cases shelved, and counter, and drawers beneath.

Lot 6.—Two Counters—13½ ft. and 11½ ft.

Lot 7.—Three bent-glass Counter Cases; 3 ft. by 1½ ft.

Lot 8.—Two flat-glass Counter Cases.

Lot 9.—Quantity of Shelving in Cellars.

Lot 10.—230 stoppered Shop Rounds and 23 large and small Ointment Pots.

Lots 1, 3, 4, 5, 7, and 8 are by Evans, Sons, Ltd., Liverpool, of stained polished wood, and in first-class condition.

Offers should be sent to Subscriber, who will give any further information required and arrange for viewing.

PATRICK GIFFORD,
Solicitor, Castle Douglas.

CASH Till, National, for Sale; perfect condition; used few months only. Letters to "G. H.," 14 York Road, Battersea.

CHEMISTS.—Counter, Shelves, Drawers, and Show-cases complete, in solid mahogany; value at £70 for probate; for immediate Disposal; no reasonable offer refused. Apply, 69 Oxford Street, Southampton.

TO LET.

BLACKPOOL.—For Disposal residue of Lease (21 years) of Shops comprising corner block in Church Street; the premises are modern, two storeys high, and contain good basements suitable for showrooms; premier position in the town. Address "X.," c/o E. Coppock, Stationer, Blackpool.

CHEMISTS and Druggists.—New Shop to be Let in main road of rising suburb near Southampton; double fronted, side entrance, 6 rooms; excellent opening; little opposition; rent £30. Full particulars apply Creighton & Sons, Builders, Totton, Hants.

TO Chemists.—Good opening, Bakewell.—Large double-fronted Shop, fitted with counters, shelvings, deep store drawers, showrooms, and glass-fronted showcases; good living accommodation; 4 bedrooms, 2 attics, bath (h. and c.), w.c.; cart way to back; possession August 1 next. Apply Tom H. Brown, F.A.A., Rutland Chambers, Bakewell.

AGENCIES.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box number being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

BELGIUM.—English firm of Commission Agents established in Brussels is open to accept Depôt or Exclusive Agency for real live Specialities handled by Drug Stores; also Toilet, Perfumery, and Proprietary articles. Apply to "Belgica" (172/30), Office of this Paper.

SOUTH AFRICA.—Gentleman, returning for 4 to 5 months' journey at end of year, is open to interview first-rate houses requiring their Proprietaries, etc., introduced (Drugs, Packed Goods, Tablets and Pills, and Sundries); every important buyer throughout the Union personally known for the past 18 years; first-class references, English and Colonial. Reply, in confidence, to 173/33, Office of this Paper.

REPRESENTATIVE requires a good house; splendid connection amongst the Chemists and Fancy trade all over E. and Wales; willing to use own motor-car; would entertain a really good sideline. Send full particulars to "Traveller," 5 St. Sidwell's Avenue, Exeter.

BUSINESSES WANTED.

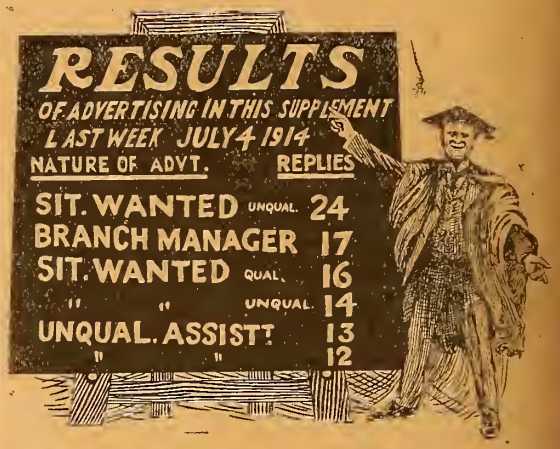
MESSRS. BERDOE & FISH have several genuine cash buyers on their books for Businesses returning from £1,500 to £4,000; intending vendors are cordially invited to correspond; strictest privacy guaranteed. Address, Valuation Offices, 35 Jewry Street, Fenchurch Street, London, E.C.

WANTED, small sound Country Business; must be genuine; or South. "Intimus" (179/29), Office of this Paper.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**



This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

WILL the advertisers 176/14 and 176/4, whose announcements appear among the following, and who omitted to send their names and addresses, kindly communicate with the Publisher in order that any replies received may be forwarded?

RETAIL.

BLACKPOOL.—Junior for season; one day off weekly. Apply, stating salary (outdoors), age, reference, etc., to Greenwood, Chemist, Central Drive, Blackpool.

BLACKPOOL.—Junior Assistant (or Improver) for Light Retail and Dispensing business; must be a capable Counterman, active, willing, and obliging to customers; no Insurance work; weekly half-holiday. Apply, with photo, stating age, salary required (outdoors), Oliver L. Jackson, Pharmacist, North Promenade, Blackpool.

BRADFORD. — Wanted, young, thoroughly up-to-date, energetic, qualified Manager; must be really capable and able to build up a big business in centre of city; salary starting £180. State fully previous experience and send photograph, 30/40, Office of this Paper.

BUSH HILL PARK.—Qualified Managing Assistant required immediately; indoors; very comfortable home; reasonable hours; no Sunday, Bank Holiday, or other duty. Please state experience and salary required, J. E. Hyde, Pharmacist, Bush Hill Park, Enfield.

CARDIFF.—Wanted, a Registered Chemist as Superintendent; middle-aged or elderly; one seeking a permanency preferred; easy position and hours; suit Chemist not in robust health. State salary required, which must be moderate, Evans, 54 Clare Road, Cardiff.

CHELTENHAM.—Junior Assistant or Improver (indoors, one only kept), for Light Retail, Dispensing, and Photographic business; no Extracting required. In reply please state age, height, experience, reference, and salary required, with photo (if convenient), to Arthur Hill, Chemist and Dentist, 98 High Street, Cheltenham.

CHESTER.—Wanted, Qualified Assistant for Branch with good Dispensing and Retail experience. Apply, stating age, height, experience, references, with salary required (outdoor), to Thos. Carter, Pharmaceutical Chemist, 171 Boughton, Chester.

DOUGLAS, Isle of Man.—Junior Assistant for about two months; outdoors; half-day weekly; Sundays, on morning or evening; no Insurance work; usual particulars. Apply, with photo and references, Greensill & Son, Douglas.

DOVER.—Alexander Bottle & Co. require an Assistant accustomed to a good-class Dispensing and Retail business; one seeking a permanency preferred. Please give full particulars of experience and state salary required (outdoors) to Mr. Ewell, 37 Townwall Street, Dover.

MORGAN.—Junior or Improver; Welsh speaking preferred; asy hours; no Sunday work; outdoors. Full particulars, hoto if possible, and salary required, Williams, Pharmaceutiemist, Maesteg.

UCESTER.—Wanted, a good, reliable Assistant for General vork and Dispensing; comfortable place for one desiring a nency. State age, height, and salary, with photo and full ilars, Broad, Chemist, Gloucester.

MSBY.—At once, Qualified Manager; able to take sole harge; Prescriber, N.H.I. Dispensing; no Sunday duty, lay 1 p.m. Apply, stating salary required, references, and particulars, to F. W. Heely, West Street, Alford, Lincs.

T (Inland Health Resort).—Qualified Manager required for rst-class Dispensing business; exceptional opportunity for dy and reliable man; every inducement offered to a man to put his very best into the business. "Chemicus" i), Office of this Paper.

G'S LYNN, Norfolk.—Competent Assistant (temporary). Please apply, with terms and references, to Sydney Count, t, King's Lynn.

CASHIRE.—Smart unqualified Junior required for an up-to-te business; must bear an exceptional character and have ood Counter and Dispensing experience. State age, when rty, and salary required, "Junior" (174/45), Office of this

CASHIRE.—Wanted, qualified Assistant; good and quick alesman required. State age, height, experience, and referwith photo, 178/3, Office of this Paper.

OS (Suburb).—Competent Assistant; outdoors; good-class perience; reliable Dispenser and good Counterman. State eight, experience, and salary required to 177/3, Office of aper.

TON, Suffolk.—Junior or Improver wanted at once; Light tail, Dispensing, and Photographic business. Full par-, age, references, and salary required in first letter. Gray, Chemist, Saxmundham, Suffolk.

RPOOL.—Unqualified; 25 to 35; married preferred; well in N.H.I. Dispensing and General Retail; permanency. n," 278 Westminster Road, Liverpool.

RPOOL.—Competent Assistant, to commence any time efore end of August; Unqualified preferred; outdoors; no ice work. R. & J. Herman, Pharmacists, Aintree, Liver-

ON.—High-class Store Chemist, N.W. district, requires od reliable Junior Assistant, age about 21; comfortable ency to the right applicant. "Golden" (174/42), Office Paper.

ON.—Reliable Assistant wanted for Dispensing and ounter; Qualified preferred, but not essential. Please give ight, experience, salary required (indoors), and when dis-. Photo if possible. Address "Derfa" (175/30), Office Paper.

ON, N.—Qualified Branch Manager (Junior kept); one ently qualified would suit. Apply, stating age, height, nce, and salary required (outdoors), to W. Burgess Dow, cist and Optician, 518 Hornsey Road, N.

ON, N.—Unqualified Assistant as Junior, age about 25, tdoors, for Light Counter trade and N.H.I. Dispensing; ave had good experience; reliable and trustworthy. Usual lars, salary required, Davies & Co., Chemists, 344 Cale-Road, N.

ON, N.E.—Wanted immediately, part-time Assistant from p.m. for 3 or 4 days a week; good-class business; N.H.I. ing. Write, giving full particulars, salary required, etc., " (176/34), Office of this Paper.

ON, N.W.—Qualified Assistant, either in or out doors; od Counterman and Window-dresser; hours reasonable; y Insurance Prescriptions. Charles W. Brumwell, Pharma-Chemist, 72 Euston Square, N.W.

ON, N.W.—Unqualified Assistant, about 25 (outdoors). pply Butes, 51a High Street, Camden Town, N.W.

ON, S.E. Suburb.—Reliable Assistant; qualified preferred; gressive permanency; age immaterial; another assistant Usual particulars in first letter, salary required, photo if ent, to "X. Y. Z." (177/16), Office of this Paper.

ON, S.E.—Qualified Assistant wanted for first-class Disnsing and Retail as soon as possible; abstainer preferred. ge, height, salary (outdoors), and usual particulars. Bailey, cist, 61 Old Dover Road, Blackheath.

ON, S.W.—Unqualified Assistant required as Junior; good pensing experience essential. Apply, giving references, W. W. Brunton & Co., 240 Earl's Court Road, S.W.

ON, S.W. Smart capable Assistant, with Counter and otographic experience; three kept; outdoors; progressive and commission; hours 8.30 to 9 p.m., Saturdays 9.30; duty every third, 6 to 9 p.m. J. Michie, 308 Earl's Court S.W.

LONDON, W.—Qualified Assistant, with good experience, required at once. Apply, by letter only in first instance, J. Robt. Walker, 36 New Cavendish Street, W.

LONDON Suburb.—Junior Assistant (outdoors) for good-class Retail, Dispensing, and Photographic; good opportunity. State age, height, experience, when disengaged, and salary expected to Matthews, Chemist, Alderman's Hill, Palmer's Green, N.

MANCHESTER.—Morton Dodge, Pharmacist, 1 Albert Square, requires at once qualified Assistant; also Junior; outdoors; experienced in Optics and Surgical Appliances, but not essential; hours 8.30 to 7; no Sunday duty. State age, experience, salary required, enclosing photo (to be returned).

MANCHESTER.—Locum wanted, qualified, from August 5. Apply, stating age, salary required, etc., with references, to E. Jeans, 1 Broad Street, Pendleton, Manchester.

MANCHESTER.—Junior or Improver (outdoors) required for a good-class Retail, with knowledge of Photography; time and assistance given to study if required. Apply, with usual particulars, J. E. Fletcher, Pharmaceutical Chemist, Sedgley Park Pharmacy, Prestwich, Manchester.

MANCHESTER.—Qualified Manager wanted for small Branch doing middle-class trade; view to succession preferred; married; to live on premises; comfortable post to suitable man. State age and salary, enclosing photo and references immediately. Apply "Executor" (177/34), Office of this Paper.

MANCHESTER District.—Qualified Branch Manager, under 40, for Retail and Dispensing business; also Junior; good Counter experience essential in each case; liberal salary. Apply, stating age, height, references, salary, etc., and enclosing photo (to be returned), to T. Woodruff, Ph.C., Ellesmere, Dialstone Lane, Stockport.

NORTH-EAST COAST.—Qualified Manager for high-class business; Store experience preferred; permanency. State full particulars in first letter, including salary required (outdoors), references, etc., and when disengaged, 173/22, Office of this Paper.

PENZANCE.—Smart unqualified Assistant for good-class Retail; knowledge of Photography essential; easy hours. Please give full particulars as to age, height, experience, salary required, and if married or single, H. H. Cannon, Pharmacist, Penzance.

ROMSEY.—A Junior Assistant required for Family and Dispensing business. Kindly state usual particulars to Oram's Drug Co., Market Place, Romsey, Hampshire.

SMETHWICK.—Qualified Assistant wanted early in August, able to take full charge; Photography and a little N.I. Dispensing; no Sunday duty. Tranmer, 42 High Street, Smethwick, Birmingham.

TUNBRIDGE WELLS.—Junior (outdoors) for Dispensing business; middle of August. Full particulars to J. H. Bishop, The Broadway.

TUNBRIDGE WELLS.—Wanted immediately, qualified Assistant; must be a capable Dispenser and accustomed to good-class business. State full particulars of experience, salary required (outdoors), and enclose photo if possible, to Howard & Son, 81 Calverley Road.

WEST END.—Junior Locum, under 30, with good Dispensing experience required from August 10th to end of September. Apply, in writing, Manrieve & Co., 42 Oxford Street, W.

WESTON-SUPER-MARE.—Junior Assistant accustomed to good-class Retail and Dispensing, Senior kept, immediately. Norman, Pharmaceutical Chemist, 33 High Street, Weston-super-Mare.

YORKS, West Riding.—Relief Assistant to take charge at a few Branches during holidays required immediately; unqualified; work congenial, and prospect of permanency if relief work satisfactory. State age, whether married or single, and salary desired, "Relief" (174/44), Office of this Paper.

A JUNIOR or other Assistant required in good-class agricultural business. State age, height, experience, salary required, and when disengaged. Harold Smith, Chemist, Cirencester.

A QUALIFIED Assistant wanted as Dispenser; outdoors. Apply, giving full particulars, to D. P. Roberts, Chemist, 120 North End, Croydon.

A QUALIFIED Assistant, age 21 to 26, required late in August; outdoors. Full particulars and salary required to Blake, Sandford & Blake, 49 Dover Street, Piccadilly, W.

AN Assistant; outdoors; no Sunday duty. State age, experience, when disengaged, and salary required to T. Davies, The Bridge Pharmacy, Porth, Glam.

ASSISTANT (Junior); Photography; easy hours and berth; no Sunday; outdoors. Freshneys, Grimsby.

ASSISTANT wanted, with good Dispensing and Counter experience; smart and capable. Apply Messrs. Timothy White Co., Ltd., Chemists, Portsmouth.

ASSISTANT wanted at once, qualified or not, for good-class Retail and Dispensing; man from Southern Counties preferred, who wishes to get experience in an up-to-date London business; large roomy shop; separate Dispensary; healthy and pleasant district; reasonable hours. Full particulars to Gould, 10 High Road, Chiswick, W.

ASSISTANT or good Junior, August 6 or later, for good-class business; easy hours; knowledge of Photography preferred. Give full particulars and references and state salary required (in or outdoors), A. G. Reid, Petersfield, Hants.

ASSISTANT; wages 35s. weekly; live out. Apply, Allen & Lloyd, Aldershot, at once.

ASSISTANT (indoors), with a little knowledge of Photography, for a good-class business; close 7.30 p.m., Thursdays 1 p.m., Saturdays 9.30 p.m. Apply, stating age, height, experience, salary required, and enclose photo, to W. H. Jones, Pharmaceutical Chemist, Malvern.

ASSISTANT wanted at once, from 24 to 30 years of age, accustomed to high-class Retail and Dispensing with Photography; in or out doors; easy hours; also a Junior (indoors); duty divided between three. Apply, with full particulars, T. E. Savage, Pharmacist, Crouch End, N.

ASSISTANT wanted, Tuesday and Saturday evenings. 4 Mount Ephraim Lane, Streatham, S.W.

C. B. ALLEN & SONS, Pharmaceutical Chemists, 20 High Road, Kilburn, will shortly have a vacancy for a qualified Assistant (outdoors) with Dispensing and General experience. Apply by letter, giving usual particulars.

CAPABLE Assistant wanted (Qualified preferred) for Dispensing business; good appearance and address. Apply, with full particulars, to "C" (176/32), Office of this Paper.

CHEMISTS' EXHIBITION, 1914.—Wanted, services of Manchester Chemist, capable Assistant, or Traveller, as Stand Attendant for Exhibition week ending September 5th. Apply to "X. Y. Z." (33/58), Office of this Paper.

CHEMISTS; smart, young, qualified men, accustomed to quick Cash trade, required for Branches in the North of England. Please state salary required, references, experience, and when disengaged, "Chemist," Taylors' Drug Co., Ltd., P.O. Box 141, Leeds.

COMMENCING August 17.—Smart, unqualified, gentlemanly Assistant for good-class Mixed business in seaside resort; must be good Window-dresser; knowledge of Photography essential; abstainer preferred; outdoors; permanency to suitable man. Apply, with references and photo, to 173/12, Office of this Paper.

DISPENSER, male (outdoors) required in good-class practice in London; must have satisfactory references. State age, experience, salary required (permanency to a suitable man), 177/7, Office of this Paper.

DISPENSER, about 25, for five weeks, August 12 or near. Apply, with full particulars, J. W. Burton, 25 Westow Hill, Upper Norwood, S.E.

DISPENSERS.—A number of women Dispensers are required temporarily in connection with the pricing and examination of Chemists' Prescriptions. Applications, on foolscap paper, in the applicants' own handwriting, should state qualifications, experience, and age, and be accompanied by copies of not more than three testimonials, and forwarded addressed, 259/52, Office of this Paper.

DRUG-STORE Manager, London, on practically profit-sharing basis; no Poisons, no Insurance Dispensing; useless applying unless good Salesman and Window-dresser, with undeniable references as manager; young married man with tact, energy, and personality seeking a permanency answering above requirements will be squarely treated. 179/12, Office of this Paper.

ELDERLY Registered Chemist required at once; duties light; knowledge of Optics preferred, not essential; suit retired gentleman desiring to supplement income. 176/15, Office of this Paper.

EVENING Assistant; Dispensing, Counter, etc.; 6.30 till 9.30, Saturday 10.30. State experience, when disengaged, and references, to "Civ" (176/14), Office of this Paper.

GOOD Qualified Manager wanted at once; also Part-time Assistant. Send full particulars as to references, salary, etc., to "H" (178/37), Office of this Paper.

IMMEDIATELY.—Temporary Assistant for eight weeks (outdoors). State salary, references, West, Wadebridge, Cornwall.

IMMEDIATELY.—Smart unqualified, about 22-24; Photography; references must bear strictest investigation; salary generous and hours moderate; first-class Dispensing experience; outdoors; Apply, Atkins, 30 Highbury Park, N.

INDOORS.—Assistant (qualified) for good-class Dispensing and Family trade; must be a neat and careful Dispenser and have a knowledge of Photography; duty divided between three. State age, height, photo, experience, salary expected, and reference to "F." (178/24), Office of this Paper.

JUNIOR, 20 or 21 years old, wanted at once to take holiday relief for about a month. Usual particulars to Comyns, Chemist, Carshalton, S.W.

JUNIOR for middle-class business, Northern suburb; live in; comfortable home; countryman preferred. Jenkin, Chemist, and Optician, 352 High Road, Wood Green, London, N.

JUNIOR wanted at once for a City Dispensary; short hours; no Sunday duty; salary 30s. weekly. Apply by letter, "Calumba," c/o Street's, 30 Cornhill, E.C.

JUNIOR, about 20, wanted the end of August for Light Retail and Dispensing; salary 30s. week (outdoors). Apply, with full particulars as to age, experience, and references, to "Drugs" (173/40), Office of this Paper.

JUNIOR Assistant, about 18, required for Drug Room; cheap living; good prospects. Timothy White Co., Ltd., Portsmouth.

JUNIOR wanted; indoors; best class Dispensing business. Apply A. H. Ellithorne, 26 Wellington Road, Oxton, Birkenhead.

JUNIOR, with knowledge of Dispensing, must be reliable, wanted about middle of August. Photo, references, salary required, height, etc., T. B., Cornfoot, Chemist, Herne Bay.

JUNIOR Assistant; outdoors; must have had good Dispensing experience; three employed. Please send full particulars of experience and salary required to J. W. Webber, Pharmaceutical Chemist, 202 High Road, Chiswick, W.

JUNIOR or Improver; good-class business. Please state full particulars, salary, etc., to Litchfield, Pharmacist, South-Farnborough, Hants.

JUNIOR (indoors), accustomed to good-class Retail and Dispensing; time arranged for School of Pharmacy if desired. State age, height, reference, and salary required to Neave & Co., 33 Gay Street, Bath.

JUNIOR Assistant wanted at once, about 23 years of age, knowledge of Photography essential and accustomed to good-class Retail; outdoors. State salary required, Julian Horrell & Co., Dispensing Chemists, The Pharmacy, Broadstairs.

JUNIOR Assistant; outdoors; young; used to good-class provincial business. Apply, stating full particulars and enclose photo, to E. Bing & Son, Pharmaceutical Chemists, Canterbury

JUNIOR wanted by the end of the month; knowledge of Photography essential; usual hours and half-holiday; in or out doors. Colston, Pharmacist, Malvern Wells.

JUNIOR, part-time, for Dispensing and Counter; just completed apprenticeship. M. P. S., 136 High Street, Smethwick, Birmingham.

LADY Dispenser wanted at once for large up-to-date Pharmacy. Please give full particulars in first letter to "Manager" (176/22), Office of this Paper.

LADY Dispenser wanted for a Kent Coast Pharmacy by August 31. Apply, full particulars, stating salary required (outdoors), to "K. C." (32/62), Office of this Paper.

LARGE Firm have an opening in their Stocktakers' Department for a Junior, age about 21; one who has had Retail experience and possesses a fair knowledge of the cost prices of Chemists' stock preferred. State age, when at liberty, and salary required, "Stock" (174/46), Office of this Paper.

LOCUM wanted for two weeks, August or September. State terms and references, Pickering, Chemist, Bishop Auckland.

LOCUM; qualified Manager required immediately for a few Country Branches during summer holidays. State salary required and when at liberty, "Locum" (174/41), Office of this Paper.

LOCUM, qualified, required for fortnight; any date after August 8. State date at liberty, salary, and references, Secretary, Brightside & Carbrook Co-operative Society, Kirkbridge Road, Attercliffe, Sheffield.

LOCUM for second and third week August, or nearest; middle-class business; indoors, or meals on premises; mostly evening trade; good references. State experience, salary, and full particulars, or call, Goodall, 66 Lower Richmond Road, Putney.

LOCUM required for month of August. Apply, 178/5, Office of this Paper.

LOCUM, qualified, wanted, fortnight in August; Midlands; duties light; short hours. State terms and references to "D. X." (177/11), Office of this Paper.

OUTDOORS; comfortable Apartments near business; vacancy for gentleman, 22 or 23 years old; must be good Dispenser, with some knowledge of Photography; time daily for recreation; liberal salary to suitable man. Apply personally or by letter to C. Rundle, Pharmacist, 220 High Street, Walthamstow (Hoe Street Station), London, N.E.

MASON & CO., LTD., of 80 King Street, South Shields, require immediately a smart qualified Assistant; must be good Counterman; apply, with references, etc.; no Sunday duty; weekly half-holiday.

ART-TIME, 2 or 3 nights per week; London, E.; permanent and work congenial; applicants must be good at the Counter Dispensing. 174/43, Office of this Paper.

ART-TIME; Victoria, S.W.; 3 evenings weekly, Tuesday, Thursday, Saturday, and alternate Suiday evenings, 6.30 to); preference given to applicants with mornings to spare, 30 to 1.30. Full particulars salary, age, experience, and refer-s, "A. B. C." (176/4), Office of this Paper.

RICHARD & CONSTANCE, 64 Haymarket, have a vacancy for an unqualified Junior; preference given to one who has apprenticed to a good provincial house, who has had a good ation, and who is willing to work hard; the salary is 30s. week (outdoors); hours 10½ per day; weekly half-holiday 1 p.m.; occasional Sunday duty. Apply to Mr. Theakston, 64 Haymarket, London.

UALIFIED Manager required for West-End Dispensing and Photographic business. Apply personally or by letter, stating experience, and qualification, to Ellis, 432 King's Road, lsea, S.W.

UALIFIED Assistant wanted in a first-class Retail and Dispensing business; practically manager, and live over busi-; suitable for a young married man; permanency. 174/5, e of this Paper.

UALIFIED Manager for small Branch business; lady not objected to; permanent; good wage; house. Apply, with particulars, send photo, Harrison & Son, Salisbury.

UALIFIED Assistant for good-class Family and Dispensing business; pleasantly situated; comfortable home, or outdoors preferred. Parsons & Happold, 182 Westcombe Hill, Black-h, S.E.

UALIFIED Manager for Branch Retail, Dispensing; house provided. State age, references, height, photo, when dis-aged, F. B. Wride, East Street, Southampton.

UALIFIED Assistant; outdoors; 21-22; must be a good Dispenser, with good previous experience. Apply person-, or by letter, to E. G. Hogg, 1 Southwick Street, Hyde Park,

UALIFIED Assistant (not manager) wanted at once for a good Country business; outdoors; no Sunday duty; short rs; three others in shop. Please state age, height, reference, salary required, photo if possible. Apply Exors. of E. Booth, ve.

UALIFIED Branch Manager wanted; one experienced in up-to-date business and seeking a permanency preferred; refer-es must bear the strictest investigation; commencing salary 2 per annum and commission. Apply, stating fullest particu-, to 177/10, Office of this Paper.

UALIFIED Assistant, young or elderly; hours 9 to 8 p.m., 10 p.m. Saturdays; half-holiday weekly; healthy town and lern shop; duties very light; for elderly gentleman hours r, which could be arranged. Salary and particulars to Watson, 2 High Street, Cleator Moor, Cumberland.

UALIFIED Manager wanted for high-class Dispensing and Light Retail business; permanency for capable man. Give particulars, including age, experience, references, photo, and ry required, to Barkers, Dispensing Chemists, Grimsby.

UALIFIED Manager wanted for Country business; married, to live on premises preferred; abstainer, and must be well ommended. Apply, with reference and photo if possible, to 37, Office of this Paper.

UALIFIED, for Management of small Branch in pleasant industrial neighbourhood, rapidly developing, near Cardiff; fortable progressive berth, with good salary, to reliable n. Please give general particulars, with photo if possible two last berths for references, Clarke, Chemist, New Tredegar, n.

UALIFIED Manager, 25 to 30, immediately; must be good Salesman and Dispenser; hours easy; single preferred. ply, stating salary and usual particulars, 176/150, Office of Paper.

UALIFIED Manager for Branch business; Extractor; out-doors. Full particulars, with age and salary required, to lgery, 442 Uxbridge Road, W.

UALIFIED elderly man wanted for small business with Insur-ance work; in or out doors; easy time. State terms to ncis, 12 Arundel Street, Portsmouth.

UALIFIED Dispenser (lady preferred) to act as Locum from July 28 to August 28. Write to Miss Brodie, Kensington l Fulham General Hospital, Earl's Court.

UALIFIED man required for first in department of Sub-urban Store; Counter and Dispensing; good salary to smart, rgetic, young man; no Sunday duty; permanency. Apply, ing particulars when disengaged and salary required, to 8/28, Office of this Paper.

UALIFIED Assistant, about 25-30, wanted for good-class Dis-pensing and Retail in S.E. London; must be capable of ing entire charge when necessary and be used to a quick busi-s; salary and commission; outdoors. Full particulars to Zonas" (179/37), Office of this Paper.

SENIOR Assistant wanted for good-class Dispensing business. State full particulars as to age, height, experience, and enclose photo to George & Welch, Pharmaceutical Chemists, Wor-cester.

SMART Unqualified Assistant wanted for the 1st September in first-class Retail and Dispensing business; hours from 9 till 7 p.m., no Sunday duty (outdoors). State age, references, salary, etc. Reply 175/32, Office of this Paper.

TEMPORARY Assistant wanted for 3 weeks, July 27th to August 15th, to manage small business in London; easy hours; good wage; outdoors. Apply, 179/3, Office of this Paper.

UNQUALIFIED Junior Assistant (outdoors) for good-class Country Retail, Photographic, and Dispensing business; pro-gressive salary to man taking an interest in the business; easy hours. State salary required, age, height (photo if possible), and references, H. J. Bromhall, Pharmacist, Thetford, Norfolk.

UNQUALIFIED smart Counterman required; must have a know-ledge of Dispensing and Photography and be a good Window-dresser. Apply, stating fullest particulars, to 177/100, Office of this Paper.

UNQUALIFIED Assistant (outdoors) as soon as possible for good-class business; Counter and Dispensing experience absolutely essential; knowledge of Photography acceptable; half-day weekly; alternate Sunday duty. Apply, with usual parti-culars, to "M. & R.," 127a, St. John's Road, Waterloo, Liverpool.

UNQUALIFIED Junior; outdoors; weekly half-holiday; quick Store trade; N.W. district; chiefly for stock and window-dressing; must be a good worker, neat, and punctual; perma-nency. Send full particulars, with salary, to "Apex" (176/24), Office of this Paper.

UNQUALIFIED Assistant wanted; good Dispenser. Particulars and salary required, Jacklin, Hale, Cheshire.

UNQUALIFIED, immediately, for relief work; good Dispenser and Counterman; salary and commission. Three recent testimonials and full particulars to Warhursts, Ltd., Gower Street, Bootle, Liverpool, marked "Private."

VACANCY in West-End for a Second Hand (about 25) where several Assistants are employed; Major men entertained and Minor not ignored. Apply, fully, "Pilule," c/o Messrs. Maw, Son & Sons, Aldersgate Street, E.C.

WANTED end of August, Junior Assistant (indoors), un-qualified, for high-class Dispensing and Photographic busi-ness; no Insurance work. Apply, with full particulars, to Beetham & Clark, Cheltenham.

WANTED, temporary Junior Assistant for August; outdoors. Please state full particulars or call to J. R. Faulkner, 173 Ladbroke Grove, Notting Hill.

WANTED, an elderly qualified man to conduct a widow's business with the help of an assistant; very light duties, comfortable home, and nominal salary; Churchman preferred. 178/6, Office of this Paper.

WANTED from July 25 for 17 days, Locum; qualified or unqualified. Apply Williams, 156 London Road, Croydon.

WANTED, at once, Qualified Manager to work up neglected Branch, or would sell on easy terms to good man with small capital; splendid chance; N.H.I. Dispensing, Clubs, etc.; London, S.W. Apply, with full particulars, 178/36, Office of this Paper.

WINDOW-DRESSING.—A young man, aged 20-25, required as Junior Window-dresser and Stockkeeper; one with some knowledge of Toilet Articles and Window-dressing preferred; must be active, willing, and possess taste. State age, height, salary required (outdoors), when disengaged, and particulars of experience to "X. Y. Z." (179/8), Office of this Paper.

WHOLESALE.

FOR the Far East.—A Clerk, having had experience in Whole-sale Drug house; preference given to one accustomed to keep-ing stock books and pricing goods; age about 25; good salary and terms to suitable man; 4 years' agreement; passage paid out and home. Address "Export" (174/28), Office of this Paper.

ASSISTANT wanted by London Perfumery house; used to Wet Counter or Laboratory work; female preferred. State age, experience, wages, etc., to "Neroli" (173/34), Office of this Paper.

C. W. JOHNSON & CO., Agents for Honoré Payan, Perfumer, Grasse, and Johann Maria Farina, Pantaleonstrasse, Cologne, require a Traveller for London district with a few exceptions on commission as Side-line. Write fullest particulars, which will be treated as strictly confidential, to 38 Great Ormond Street, Southampton Row, W.C.

JUNIOR Assistant, with some experience of Drugs and Pharma-ceutical Chemicals, wanted by a London manufacturing house. Apply, stating salary required, etc., etc., to 33/59, Office of this Paper.

CAPABLE Travellers for Midlands and Scotland required. Particulars to C. Tolkein & Co., Novas Chemical Works, Blackburn.

CHEMIST required, with general, technical, and commercial knowledge and experience in the manufacture of soluble Fruit Essences, etc. State full particulars, salary, etc., to 33/41, Office of this Paper.

INVOICE Clerk, with some experience of Drug trade, wanted at once by London Wholesale Druggists. Apply, stating all particulars, to "Fructus" (32/16), Office of this Paper.

MEDICAL Representative wanted by manufacturer of an important instrument for Clinical Diagnosis not yet introduced into England; German representatives earn not less than £7 10s. per week. Gentlemen calling on Hospitals, Clinical Laboratories, and the leading Physicians might apply to 176/35, Office of this Paper.

REPRESENTATIVE wanted at once by German Manufacturers of Surgical Instruments; only Wholesale 22/56, Office of this Paper.

REQUIRED by a firm of Wholesale Chemists in the North of England, experienced Pillmaker and Sugar Coater. Apply, with full particulars as to experience, age, salary required, 174/4, Office of this Paper.

SALESMEN, with proved selling ability, required for unique Proprietary with forcible advertising scheme; only men with sound and extensive connection considered; purely commission basis, but the right men will be liberally treated. State if guaranteed, ground covered, total sales six months, present lines carried, and the fullest details in first letter to Ner-Vix Remedy Co., Marsh, Huddersfield.

STRONG Lad wanted for Bottle-washing in Wholesale Chemist's. Address replies to 179/360, Office of this Paper, giving references, etc.

VACANCY will shortly occur for young educated gentleman, about 22 years of age, able to write smart letters and follow up inquiries; must be thoroughly reliable and able to work without supervision; one conversant with Chemists' Packed Goods and Speciality house preferred. Give fullest particulars as to salary, experience, etc.; splendid opening for man with initiative. Write "Sales" (27/41), Office of this Paper.

WANTED, smart Ledger and Invoice Clerk for Lancashire. State fully experience, age, salary required, when disengaged, and enclose photo (which will be returned), to 177/20, Office of this Paper.

WAREHOUSE Assistant wanted for Despatch Department of a City Wholesale Druggist. Write, giving references, stating age and wages required, 179/36, Office of this Paper.

WET FLOOR.—Wanted, a Junior Assistant for the Wet Floor; also an Assistant who has had experience in Dispensing Prescriptions. Address, stating age, experience, and wages required, to "Borax" (32/42), Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid. The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

BOMBAY.—Qualified Assistant wanted for a first-class private British firm of Chemists; age not over 30; three years' agreement; salary £200 first year, £220 second year, £240 third year; passage paid out and home by P. & O. steamship. Apply, with copies of testimonials and photo, to "R. L.," S. Maw, Son & Sons, 7/12 Aldersgate Street, London, E.C.

BRITISH EAST AFRICA.—Qualified Assistant good Salesman and Dispenser; salary £20, £22, and £24 per month; second-class passage paid; exceptional opportunity; highest references essential. Fullest particulars, including age and experience, to "F. J. R. B.," c/o Messrs. Evans Sons Lescher & Webb, Ltd., 60 Bartholomew Close, E.C.

CHEMIST, Pharmaceutical, qualified, age about 24, single, required for first-class business in British Colony; good tropical climate; 4 years' agreement; passage paid; salary and commission £230, £250, £250, and £270, with quarters. Apply, with full particulars of experience, to 173/37, Office of this Paper.

FOR the Far East.—A Clerk, having had experience in Wholesale Drug house; preference given to one accustomed to keeping stock books and pricing goods; age about 25; good salary and terms to suitable man; 4 years' agreement; passage paid out and home. Address "Export" (174/28), Office of this Paper.

PARIS.—Assistant, qualified preferred; good Dispenser. Age, height, references, etc., to "Continental" (32/67), Office of this Paper.

SYDNEY, Australia.—Smart, young, qualified Chemist required in connection with the Analytical work of a manufacturing business; salary £200 per annum; passage paid. Apply "S.," c/o Messrs. Evans Sons Lescher & Webb, Ltd., 60 Bartholomew Close, London, E.C.

DRUGGIST, unqualified, age 23 to 25, single, wanted for first-class British business in East Indies; good tropical climate; 4 years' agreement; passage paid; liberal salary to smart man with experience of good-class trade. Apply, giving full particulars of experience, to 173/370, Office of this Paper.

QUALIFIED.—Wanted, by September 1, 1914, or earlier, young qualified Chemist, English nationality, but with good knowledge of French language, to introduce high-class Pharmaceutical and Chemical products to Medical Men and the trade in France; business development ensures a good opening for an energetic man able to meet the requirements of the position. All applications in writing, with usual particulars, to 17/64, Office of this Paper.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

[HOME.]
RETAIL.

AS Manager to a good-class business; disengaged; highest references. Apply 174/17, Office of this Paper.

ASSISTANT or Locum; unregistered; Extractor; Optics; Prescribe; age 54; 35 years' Retail experience; height 5 ft. 8 in.; good references; disengaged. "Lancs" (178/2), Office of this Paper.

ASSISTANT (23); situation for about two weeks. E. R. R., 54 St. John's Wood Road, N.W.

ASSISTANT; age 20; with West-End Dispensing, Stock, and slight Counter experience; no apprenticeship. W. Catt, 186 Vauxhall Bridge Road, Westminster, S.W.

ASSISTANCE given by experienced man (except evenings); Hospital, City, East, and West-End experience; smart Counter Salesman; qualified N.H.I. Dispenser; good Extractor; Impressions. 179/22, Office of this Paper.

DENTAL Surgery; expert Operator; Crowns, Bridges, Gold-filling, etc.; experienced Anæsthetist; also 10 years' first-class Pharmacy; salary required £3 10s.; age 28; married; permanency. Apply 179/35, Office of this Paper.

DISENGAGED; Locum, permanency; qualified; 38; London and Provincial experience, all branches. 4 Citadel Terrace, Plymouth.

DISPENSER; qualified; outdoors; excellent references; end July. "Pharmacist," 22 Lonsdale Road, Barnes.

EVENING work (in London); medical student reading for Final; good all-round experience; highest references. "M." (176/16), Office of this Paper.

FRENCHMAN; 24; disengaged August 10; fluent English; smart Dispenser and Counterman; 8 years' experience, including 9 months in England; knowledge Photography; good references; London or South Coast; outdoors. Allard, 9 Beach Road, Littlehampton.

GENTLEMAN (27), well educated, passed Preliminary, good knowledge of Optics, sound business training, but no knowledge of Pharmacy, desires post with Chemist to learn business; qualify; excellent references; small salary required. "A. C.," 9 Selborne Street, Liverpool.

HULL.—Locum or otherwise; disengaged; 24; interview if necessary; good references. "Qualified," 376 Cleethorpe Road, Grimsby.

JUNIOR; 21; tall; Dispensing; Ireland preferred. "Aspirin" (34/19), Office of this Paper.

LADY Dispenser (Hall) requires post with Institution or Doctor. "A. H.," 31 North Boulevard, Hull.

LADY Dispenser (Hall) requires post or Locum work in Hospital or Institution. Apply "N. K.," Hillside Cottage, Uplands, Loughton.

LADY, accustomed to Chemist's business, requires post as Cashier and Bookkeeper; well up in Insurance pricing, etc., and can assist in Dispensing and Retail. 176/17, Office of this Paper.

LOCUM; August 10-21; young; gentlemanly; qualified; capable; North London preferred. Apply 174/27, Office of this Paper.

LOCUM, or Seaside; disengaged July 27; 26; qualified; tall; Dispensing, Photography. 3 Cross Street, Mill Road, Cambridge.

CUM; qualified; 45, good references; in or out doors; London preferred; disengaged last 3 weeks September, all October. c/o Mr. Buckingham, Aylsham, Norfolk.

CUM; 30; qualified; excellent experience Photography, insurance; vacant July 27 till August 2. "Chemist," Engelheart Road, Catford.

CUM, qualified, disengaged; high-class experience. Apply, Geering, "Hazeldene," Cornwallis Gardens, Hastings.

CUM, qualified, disengaged July 21st to August 3rd; good-class experience and references. "Oatine," c/o J. Had- Spa Pharmacy, Matlock.

CUM or Permanency; unregistered; 35; married; 5 ft. 7½ in.; one girl 10; Manager experience; at liberty; live over pre- if desired. 176/28, Office of this Paper.

CUM, qualified, 20 years' good-class experience, has vacant dates immediately and August 8 or 9. "Aspirin," 29 Avon- Road, Southport, Lanes.

NDON.—Unqualified; good Dispenser and Counterman; 33; permanency preferred; best references; experienced. "Cap- (175/40), Office of this Paper.

NAGER: London; permanency; Locum; qualified. 9 Unwin Mansions, Queen's Club Gardens, Kensington, W.

NAGER or Assistant; middle-aged; unregistered; abstainer; married, no family; live on premises; seaside preferred; to purchase; varied experience. "Francis" (176/21), Office is Paper.

NAGERSHIP or responsible appointment wanted by one with 17 years' experience in all positions of the Wholesale Retail Drug trade; qualified; energetic; progressive; with ising and administrative abilities, and good commercial train- 174/26, Office of this Paper.

NAGERSHIP; Agricultural district preferred; qualified; highest testimonials. 177/39, Office of this Paper.

H.I.; quick; accurate; Counter, Photographics; Locum; permanency. 36 Rye Road, Hoddesdon, Herts.

RMANENCY; unqualified; good Dispensing and all-round experience; strictly temperate; thoroughly reliable. 174/13, of this Paper.

RMANENT situation required by young man of good address, who is well conversant with Dispensing, Counter work, Stock- ng, and Window-dressing, though unqualified; Northern dis- preferred; reliable reference. "Industrious" (173/16), of this Paper.

ARMACEUTICAL Chemist, age 38, active, of medium height, experience all branches of the business, desires Managership rivate Chemist; present position five years; Home Counties rred. "Ouvrier" (178/30), Office of this Paper.

ARMACIST, excellent character, experienced, and business ability, desires Management with view to succession on ial purchase terms; country preferred. "Dean" (176/40), of this Paper.

ARMACIST requires post of some responsibility; good and varied experience; prepared to take up partnership or ulti- succession; disengaged about October 1st. 175/22, Office is Paper.

ARMACIST, reliable, married, highly recommended as Locum and Manager, desires permanent post with private ist, or as Dispenser to Medical man; age 40; moderate hours. 33, Office of this Paper.

OTOGRAPHIC Salesman; knows trade throughout; apparatus and materials, developing, printing, enlarging, ards, etc. Campbell, 16 Vicarage Road, Leyton.

ALIFIED; 31; Provincial, London, and Continental experi- ence; best references. 174/3, Office of this Paper.

ALIFIED; competent, energetic, and trustworthy; Dispenser, Manager, Locum, or Senior Assistant; 40; excellent refer- : now disengaged. Williams, Pharmacist, Tynypystill, Garn nmaen, Carnarvon.

ALIFIED elderly Chemist disengaged; Locum or permanent; South London for choice; Hospital experience. 175/15, of this Paper.

ALIFIED; Manager or Locum; disengaged; smart Counter- man. "Veritas," 736 Oldham Road, Failsworth, Manches-

ALIFIED; Locum, Manager, or position of trust. "Capable," c/o Maw's, Aldersgate Street, E.C.

ALIFIED; elderly; active; moderate hours; good testi- monials. "Spes," 35 Paddington Street, Marylebone.

ALIFIED Manager, sound experience, desires permanency. For particulars apply 178/25, Office of this Paper.

ALIFIED; 36; tall; married; Counter, Dispensing, Photo- graphy; disengaged. Stewart, 16A Highgate Road, N.W.

ALIFIED, experienced Retail, Dispensing, and Photo- graphy, knowledge of Optics, disengaged, desires Locum or ancy. Isaac, Waggadon, Huntshaw, Torrington.

QUALIFIED (26); used to taking charge; 12 years' good ex- perience; permanency or Locum. "English," 25 Caldew Street, Silloth, Carlisle.

QUALIFIED (29); Locum or Permanency; Senior or Manager; experienced, up-to-date. "Kensington" (176/7), Office of this Paper.

QUALIFIED; Manager or Senior; married, young; all-round experience; abstainer. Please state full particulars of vacancy in first letter. Apply 176/2, Office of this Paper.

QUALIFIED (50) desires engagement; experienced Counter, Dispensing, or Manufacturing; tall, active, obliging; disen- gaged; town or large town near. Ph.C., 91 Lupus Street, S.W.

QUALIFIED Manager or Senior (29); experienced. Jackson, 5 Station Parade, Eastburne.

QUALIFIED, elderly, disengaged for two weeks. "W." (178/27), Office of this Paper.

RELIEF, mornings only; experienced; Richmond district pre- ferred. "Radix," 41 Selwyn Avenue, Richmond.

SEPTEMBER; thoroughly experienced in high-class Pharmacies and Agricultural districts; energetic, up-to-date, courteous, steady, reliable, and willing; practical knowledge of Photography; highest references; four berths in 23 years; married; no children; unregistered; permanency desired. 173/15, Office of this Paper.

STUDENT (22) requires morning and afternoon work; South Coast experience; finish 5.30 p.m. from July 20 to August 18. 173/32, Office of this Paper.

UNQUALIFIED; Assistant or manage Branch; middle age; married; no family; country preferred; good experience. "Drugs," 167 Short Heath Road, Erdington, Warwickshire.

UNQUALIFIED Assistant; 26; good Dispensing experience; Photography; disengaged in about 6 weeks; permanency. State particulars and salary, "L.," 4 Wenban Road, Worthing.

UNQUALIFIED; all-round conscientious worker; engagement wanted. 174/29, Office of this Paper.

UNQUALIFIED Assistant; 24; smart appearance and good address; 7 years' high-class experience. Coger, Marine Parade, Worthing.

UNQUALIFIED; evening work wanted; Dispensing or Surgery Attendant. "A.," 24 College Street, Chelsea.

UNQUALIFIED Assistant; 4 years' Dispensing and Photo- graphic experience; Yorkshire. 176/27, Office of this Paper.

UNQUALIFIED; Hall qualification; 48; good Dispensing; ener- getic, single; abstainer; two guineas week; permanency; good reference; disengaged. Watson, 5 Hoddeston Road, Belve- dere, Kent.

UNQUALIFIED; 17 years' General experience, Counter, Dis- pensing; City preferred; outdoors. "Opties" (179/9), Office of this Paper.

UP-TO-DATE Pharmacist, young, reliable, energetic; requires Managership; Optics, Photography, Window-dressing, etc.; excellent experience. "Isag" (179/24), Office of this Paper.

YOUNG Bohemian, Austrian Chemist, seeks situation in Chemist's shop or Laboratory; nominal salary only required; speaks German and a little English; has excellent references. Apply Charles Cernoch, 170 Holland Road, West Kensington.

YOUTH (17) seeks situation as Improver; indoors. Hughes, 7 Eign Street, Hereford.

WHOLESALE.

ADVERTISER wants Agency Commission; calling upon Doctors. Brown, 53 Connaught Avenue, Plymouth.

ADVERTISER, age 30, with sound knowledge Wholesale and Retail, seeks berth with view to departmental management; moderate salary; highest references; abstainer. 179/5, Office of this Paper.

AS Assistant or Laboratory hand in Wholesale or Retail Drug- gist's; 10 months' experience in England; excellent English references; merely nominal wage; Hungarian; 23. Pozsgay, 22 Churton Street, Victoria, S.W.

CHEMIST, Englishman, 33, married, with Continental training (Zurich), having occupied positions in laboratories and works on the Continent and in America, is desirous of a permanent position in England; 5 languages perfectly, also experience in literary work and translations. Box 3363, c/o Berry's, Gresham House, E.C.

FRENCH Chemist, 24 years old, who has specialised as Food Analyst and Bacteriologist, wishes to spend three months in England in order to learn the language; desires to be em- ployed in the Factory of a Preserve or Chemical Manufacturer or in a large Chemist's or Druggist's Stores; au pair, or would pay a small fee. Address, "F. S.," c/o Davies & Co., Advertising Agents, Finch Lane, Cornhill, E.C.

QUALIFIED Chemist leaving Retail wishes position as Traveller or Agent (Scotland) for Druggists' Sundries, Cattle Medicines, or Sheep Dips. Apply, 173/28, Office of this Paper.

MANUFACTURING Chemist requires position in Wholesale Druggist's business; London experience, manufacturing and analysis; also buying, travelling, office warehouse despatch, etc.; highest references. 176/12, Office of this Paper.

TABLET Maker (all-round); 5 years' experience. A. B., 46 Hill Street, Peckham, S.E.

TRAVELLER, experienced speciality Salesman; disengaged shortly; good knowledge of the trade. 176/3, Office of this Paper.

TRAVELLER, experienced, desires to Represent good house; Drugs or Sundries; sound connection. 177/22, Office of this Paper.

TRAVELLER or Representative.—Gentleman, with Travelling, Wholesale and Retail, experiences, desires engagement, Drugs or Sundries; connection South and West. 163/18, Office of this Paper.

TRAVELLER, experienced, commercial training, smart salesman, open to Represent first-class house; Essences, Oils, etc.; sound connection Mineral-water makers, Confectioners, etc. Apply, 179/18, Office of this Paper.

WANTED, whole or part time position as Traveller or Agent by energetic commercial gentleman, with English and American training; capable organiser; highest references. 177/370, Office of this Paper.

WEST OF ENGLAND.—Gentleman covering this ground desires additional Agency (known Proprietary line): part expenses and commission; references; guarantee. Address "Bristolian" (170/14), Office of this Paper.

SITUATIONS WANTED.

(Colonial, Indian and Foreign.)

1s. for 12 words or less; **6d.** for every **10** words beyond, prepaid. The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

This heading is reserved for assistants seeking situations in the British Colonies, India, and Dependencies or elsewhere abroad.

RELIABLE Assistant (23), good Dispensing, Retail, Optical, seeks place abroad; exemplary character; abstainer. "Savon" (174/9), Office of this Paper.

MISCELLANEOUS.

McADAM & TUCKNISS, Sharedealers, Bank Chambers, Blackheath, S.E. Established 1898. Telephone 81 Lee Green.

Shares for Sale (free of commission, subject).—200 British Oxygen, 43*s.* 9*d.* (dividend and bonus last year 20 per cent.); 1 Lever "C" Preference, 19*s.*; 5 Parke's Drug Ordinary, 8*s.* 6*d.* c.d.; 200 A. J. White, 9*s.*; 100 St. Ivel 6 per cent. Preference, 17*s.* 9*d.*

Wanted (subject).—170 Wright Layman Preference, 21*s.*; 100 Veno Drug; 20 Bleasdale.

List of Shares for *Sale* and *Wanted* sent free on application. Every effort made to effect business for Buyers and Sellers in all Stocks and Shares. Bankers, London County and Westminster.

AN EXPLANATION AND APOLOGY.

IT has been brought to our notice that our Market Report of June 26, although issued in the usual way on paper bearing our name, had, at the end of the report, the name of "Saml. Lambert & Co." This name was inserted in error, and as soon as the mistake was discovered attempts were made to rectify it and our own name was put at the end of the report. We are, however, afraid that in some cases the name of Saml. Lambert & Co. could still be seen. We have tendered Messrs. Saml. Lambert & Co. our sincere apologies for the mistake, and wish to take this opportunity of putting the matter right. We need hardly add that Messrs. Saml. Lambert & Co. and ourselves carry on entirely distinct businesses, and there is no connection between the firms. The mistake arose entirely through carelessness, and no representation was made, or intended to be made, reflecting in any way on Messrs. Saml. Lambert & Co.

BURKETT, SHARP & CO.
(The London Drug Co.),
Drugs, Oils, and Chemicals.
10 and 11 Mincing Lane, London, E.C.

SHOPFITTINGS and Showcase.—Large quantity removed from Pharmacies being altered: 5-ft. Glass-fronted Counter, 70*s.*; 7-ft. Plate-glass Wall Case, £8; Silent Salesman Cases, 75*s.* upwards. Write requirements, PHILIP JOSEPHS & SONS, LTD., 93 Old Street, E.C.

BIG BARGAINS IN SECOND-HAND FITTINGS.—12-ft. Wall Fixture, Mahoganised Drawers, Lockers and Shelving, £11 10*s.*; Dispensing-screen for floor, 6 ft. high, £7; 6-ft. Bent-front Counter Case, £5; Silent Salesman for Counter, 75*s.*; ditto for floor, £7 10*s.*; 12 4-lb. Pink Jars, Gold-labelled, 42*s.*; 12 2-lb. ditto, 22*s.*; 120 Gold-labelled Shop Rounds, 92*s.* Write for particulars, R. TOMLINSON & SONS, Headquarters for Chemists' Fittings, Bond Street, Birmingham.

CHEMISTS' Fittings, Silent Salesman Showcases, Drugfittings, Dispensing-screens, Wall-cases, Perfume-cases, Desks, Glass-front Counters, Counter Drawers, Shop-soiled, Second-hand, at unbeaten prices; before you decide get my estimate, you can't do better; 30 years fitting Pharmacies. George Cook, the Chemists' working Shopfitter. New address: Catherine Street, City Road, E.C. (few doors from Old Street).

BEST cash price for all old Cameras, any make, also all old Photo goods, no matter how damaged; any kind you may have send them along; cash will be sent same day; no waiting; we buy all and return nothing. S. E. Hackett, 23 July Road, Liverpool, E.

£25 10*s.* will buy 12-ft. Drug Fitting (Glass Knobs and Labels), 11-ft. Mahogany-top Counter, 4-ft. 6-in. Wall Case, Dispensing Screen and Counter, Perfume Case and Desk; all sound and in good condition. Call or write, RUDDUCK & CO., 262 Old Street, E.C.

SECOND-HAND Fittings.—For Sale, cheap, 6-ft. and 7-ft. Dispensing Screens; 6-ft., 7-ft., 10-ft., and 12-ft. Wall Cases; 8-ft., 10-ft., and 12-ft. Glass-fronted Counters, full of Drawers; 4-ft., 5-ft., 6-ft., 8-ft., and 10-ft. Mahogany and Plate-glass Counters; Drug Fittings, all sizes; Silent Salesman; Cash Check Tills from 15*s.*; estimates for alterations by experts. FARLEY'S SHOP-FITTING WORKS, Show Rooms, 227 Old Street, E.C.

CHEMISTS' Second-hand Modern Fittings.—12-ft. Drug Fitting, 10-ft. Glass-fronted Counter, Nest of Counter Drawers, 6-ft. Dispensing Screen and Counter, Perfumery Case and Desk, Mahogany Bent Plate-glass Counter Case, 8-ft. Window Enclosure, Plate-glass Mirror, the lot £49; bargain. Send for sketches. Cheapest house for Structural Alterations, Shopfronts, Window Enclosures, Glass Shelves; Estimates free. H. Mills, Chemists' Shopfitter, Shopfront Builder, and Glass Facia Works, 163-5 Old Street, E.C. 'Phone 550 London Wall.

ON YOUR HOLIDAY look for Bromley's Talking Cards in the windows of brother pharmacists. In nearly every British holiday resort at least one good-class pharmacist is a user. Talking Cards are just the thing for seaside chemists, where passers-by have plenty of time to study windows.

WRITE FOR DETAILS.

BROMLEY, *Chemist*, WHETSTONE, MIDDLESEX.

ALLOW ME TO SEND YOU

particulars of my Window Centre Library. The best aid to modern window advertising. Over 50 different centres. What was only possible to the big advertiser, is now possible to every Pharmacist. Particulars of this and my Business System Free. Only one Pharmacist in a town supplied. A Ph.C. writes: "I've been with you 4 years; book me again; your window centre scheme is the best aid to attractive window advertising one can have."

BILLYARD ALLISON, PHARMACIST, RETFORD.

EXCHANGE COLUMN

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.

No advertisement inserted for less than 6*d.*

FOR DISPOSAL.

DENTAL.

12 PAIRS dental forceps, best makes, 2*s.* 6*d.* and 3*s.* 6*d.* Ross, 176 Upper Richmond Road, Putney.

MISCELLANEOUS.

£5; bargain to clear; American soda fountain, in excellent condition; 4 syrups; worth £20. 174/31, Office of this Paper.

20 15-gr. tubes gold chloride, 27*s.* 6*d.*; ℥iv. santonine, 28*s.* 178/33, Office of this Paper.

4-GRAIN rotary pill-cutting rollers, as new; 1, 2, 3, 4 grain piping plates; what offers? The Gables, Earl's Road, Nuneaton.

INVALID chair (Merlin); equal to new; adaptable to any position; cost £8; price £5, or nearest offer. Write Gale, Pharmacist, Margate.

PENDAR'S treadle (or power) rotary machine with brass cylinders to cut 3 grain pills; what offers? R. P. Kernick, Chemists' Valuer, City Chambers, Cardiff.

WANTED.

WANTED, tooth forceps, etc., good condition. 177/15, Office of this Paper.

OPTICAL books; Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, London, S.W.

WILLS PROVEN.

JOSEPH LEE, 37 Avondale Road, Southport, retired , who died on May 23, aged sixty, left estate of ss value of 4,677*l.*, of which 4,656*l.* is net personalty.

THOMAS JAMES BARRATT, Bell Moor, Hampstead London, N.W., chairman and managing director of . A. & F. Pears, Ltd., who died on April 26, aged -two, left estate of the gross value of 405,564*l.* 16*s.* 6*d.*, ch the net personalty has been sworn at 241,323*l.* 16*s.* e of his will has been granted to Major Sir Edward m Coates, Bart., Mr. A. T. Hollingsworth, Mr. R. L. (solicitor), and Mr. G. D. Perks (solicitor), to each m as executors testator left 400*l.* He left the Nelson consisting of two wine-coolers, two sauce-boats, and ot, formerly belonging to Admiral Lord Nelson t by the testator at Lord Bridport's sale), to the Naval Hospital, Greenwich. There are various ts to servants. He left on trust 50,000*l.* each for his . F. Barratt and K. F. Barratt; failing them the reverts to the City of London for the provision of paces. He left 10,000*l.* upon trust for each of his s, H. C. Barratt and W. T. Barratt; 21,000*l.* on or the children of his sister, Emma Wade; 49,000*l.* w the trusts of a certain settlement; various presenta- ticles and articles made from the wood of Nelson's *oudroyant* to his two sons; and, subject to numerous equests, the residue of his property as to one-fourth rust for each of his said two sons, one-fourth upon r the children of his sister, and one-eighth upon trust h of his nephews, H. C. Barratt and W. T. Barratt.

Brit. Phar. Conf.

GEMENTS have been made with the various railway nies by which members travelling to the Chester g are granted a rebate in the amount of the fare. ain this concession it is necessary to present at the y booking-office a special form signed by the Secre- f the Conference. These forms have been sent to mbers who have signified their intention of being t, but in case any of these have miscarried appli- for the form should be made at once to Mr. H. nore, Guy's Hospital, London, S.E. Mr. Finne- s prepared to arrange for reserved seats for those ing from London, but only if the applications reach y Saturday morning. Applicants should state by railway line they desire to travel.

following is a list of the papers which will be read Conference next week :

nzoin: Its Analytical Characters," by T. T. Cocking D. Kettle.

e Mineral Constituents of Certain Tinctures and " by S. Judd Lewis.

proved Method of Administering Extract of Male- by F. W. Crossley-Holland.

e Place of Carbon Disulphide in Official Pharmacy, uggestions for its Further Use," by F. H. Alcock.

e Composition of Tinctura Iodi Decolorata," by Pratt.

e Rate of Dialysis of Alkaloids in Aqueous Solution the Form of Galenicals," by H. Finnemore.

dulteration of Belladonna-leaves," by G. Stafford and H. Deane.

etermination of Iron in the Presence of Phosphoric " by C. E. Corfield and W. R. Pratt.

e Purity of Pepsin: Bacteriologically Considered," nest Quant.

mmercial Standards for Dried Magnesium Sulphate, m Sulphate, and Sodium Phosphate," by J. C. Umney . T. Bennett.

stimation of Strychnine in Presence of Brucine," by Dott.

e Composition of the Glycerophosphates of Com- ," by J. C. Umney and C. T. Bennett.

e Incompatibility of Strychnine with Alkalies and Bromides and Iodides," by H. Finnemore and illiamson.

iquor Opii Sedativus," by R. R. Bennett and T. T. ng.

e Legal Obligations of Dispensers," by H. Wippell

usiness Science in Pharmacy," by T. O. Barlow.

niformity in the Dispensing of Abnormal Prescrip- A Suggested Code of Rules," by E. Saville Peck.

Minor Examinations.

WE are informed by the Registrar of the Pharmaceutical Society that the following persons passed this examination in London this month :

Appleby, Walter J., Nottingham
Ashworth, Harold, Fenton
Baccarese, Leopold L., Gibraltar
Barker, John P., Acton
Barton, A. Q., Newport, I.W.
Barton, Harold, Warrington
Bessell, Frederick G., Bristol
Biltcliffe, John E., Barnsley
Boden, Fred G., Mossley
Boulton, Reginald, Burgh
Bowles, R. W., Fakenham
Brown, Percy J., Gillingham
Burdekin, T. F., Sheffield
Burton, Percy, King William's Town
Canham, Colin A., Norwich
Cannon, James, Middlewich
Champion, Harold L., Durban
Coates, Frank S., Ashbourne
Cohen, Benjamin, Spitalfields
Collen, Frank D., Blackheath
Coverdale, George H., York
Daniel, David C., Carmarthen
Dann, Dorothy P., Liverpool
Davies, David, Llandilo
Donaldson, Alfred R., Cosham
Dunn, George E., Stockwell
Eastland, Cyril J., Margate
Eaton, John, Kendal
Edwards, Edward G., Cardiff
Eley, Harold W., Birmingham
Ellis, Harold C., Aberystwith
Evans, Trefor E., Ton-Pentre
Evelyn, Fred, Camelford
Farnill, Thomas B., Hull
Fawke, John E., Kidderminster
Fenwick, Marjorie E. F., Mumbles
Floyd, Francis J. J., Bury St. Edmunds
Foster, Archibald D., Hove
Foster, Hugh F., Hove
Gasson, Wm. H., Woodford
Gastman, Wm., Stockwell
Geering, Walter S., Hastings
Gifford, May, Blackburn
Goodman, M., Birmingham
Goodman, R. J., Banbury
Goundry, John F., Cranbourne Street, W.
Grant, Minnie, Bridgend
Gray, John P., Worthing
Gurd, Raymond V., Stradbally
Harris, Arthur J., Cardiff
Harwood, James O., Bury
Hennemann, Isaac, Gt. Grimsby
Honiatt, A. R. C., Highgate
Hopkins, Leslie, Leighton Buzzard
Isaac, Arthur A., Torrington
James, Evan, Maesycrugian
Jones, Benjamin, Glyn Neath
Katz, Phineas, Birmingham
Kirton, Ethel M., Norbury
Kirton, Stanley T., Hull
Laxton, Wm. M., Cambridge
Ledger, Joyce M. K., Hereford
Livingstone, L., Birmingham
Lloyd, Edward, Clapham
Lumb, George, Halifax
Marchanton, A. L., Southport
Marshall, G. G., Newcastle-on-Tyne
Martin, George L., Maryport
Mason, Jesse, Newport, Mon.
Massie, Mildred E. J., Wakefield
Meredith, J. F., Southbourne
Morum, Amos G., Bromley
Naylor, Richard, Bradshaw
Neave, Frances L., Earls Court
Nickerson, Edwin, Grimsby
Pearce, Arthur C., Norwich
Peile, John A., Wigton
Proctor, Arthur, Halifax
Purvis, George B., Bridlington
Quinn, Shelley, Oldham
Rees, James D., Putney
Rogers, Harold D., London
Scgar, Caroline M., Newton Abbot
Sharpe, James H., Burnham
Skidmore, Robert R., Derby
Smith, Robert J., Barrow
Smith, Roy A., Hornsey
Smith, William E., Exeter
Somer, Arthur J., London
Stansfield, W., Manchester
Steggles, Horace, Petworth
Stocks, Horace C., Clapham
Swift, Eugene N., Blackpool
Taylor, Harry H., Oldham
Theckston, James, Liscard
Thomas, Frank M., Penycwm
Thomas, Morris I., Treorchy
Thomas, Thomas, Felinfoel
Thorne, Albert L., Wimbledon
Torian, Moses H., Camberwell
Towle, Robert, Louth
Turner, James A., Wolstanton
Upton, Ernest S., Tonbridge
Walton, Egbert B., Kegworth
Watts, E. S., St. Annes-on-Sea
Webb, Stanley, Luton
Weeks, William T., Brighton
Weldrick, H. I., St. Leonards
Wiles, Clarence A. L., Lincoln
Williams, G. L. B., Cambridge
Windemer, Donald A., Tunbridge Wells
Wride, F. B. H., Southampton
Young, Thomas E. B., Clapham

Pharmacists Visit Germany.

A PARTY of pharmacists, chiefly American, most of them accompanied by ladies, is on a visit to Germany this week. Messrs. Alexander and Mair (Edinburgh) joined the party at Hamburg. The party, which numbers 120, has been organised by the German Apothecaries' Society of New York, and arrived at Berlin on Wednesday, July 15, where they had a hearty reception and warm welcome from a local committee, consisting of Geheimrat Professor Dr. Thoms, Dr. Salzmann, and Chief State Apotheker Hermel. On Thursday the party were formally entertained to a reception at the Club-house of the Deutsche Apotheker-Verein. Dr. Salzmann (the President) welcomed them, and the visitors inspected the Clubhouse. Dr. Alpers, Professor of Pharmacy at Cleveland, Ohio, replied. The party then lunched, after which they took automobiles to the Pharmaceutical Institute at Dahlem, where the Principal (Dr. Thoms) gave an experimental lecture, and the party was then conducted through the laboratories and the botanic gardens in which the Institute stands, Professor Dr. Gilg acting as the conductor over the gardens. Afterwards the party had a sail on the Wannsee.

COLLEGE NOTES.

NORTHERN COLLEGE OF PHARMACY.—The following awards have been made on the results of the terminal examinations: Silver Medals.—Chemistry, Mr. R. Naylor; Pharmacy, Mr. F. G. Boden. Certificates.—Dispensing, Messrs. R. Naylor, J. E. Biltcliffe, W. O. Wilkinson, J. O. Harwood, and H. S. Dearnley; Practical Chemistry, Mr. J. E. Biltcliffe; Theoretical Pharmacy and Materia Medica, Messrs. R. Naylor, J. E. Biltcliffe, and W. O. Wilkinson; Botany, Mr. J. E. Biltcliffe; Theoretical Chemistry, Mr. F. G. Boden; Clayton Scholarship, Mr. N. W. Holmes.

WESTMINSTER COLLEGE OF PHARMACY.—In the examinations held at the end of the session the following prizes were awarded: Chemistry.—Silver Medals: Messrs. H. W. Larcombe and J. E. Fawke. Certificates: Messrs. R. Charlesworth, L. Hopkins, M. I. Thomas, E. Lloyd, D. C. Daniel, G. G. Marshall, J. P. Barker, H. Ashworth, R. J. Goodman, and G. L. Martin. Botany.—Silver Medal: Mr. G. G. Marshall. Certificates: Messrs. H. W. Larcombe, J. E. Fawke, R. Charlesworth, E. Lloyd, J. P. Barker, H. Ashworth, R. J. Goodman, G. L. Martin, M. Tothill, and P. Burton. Materia Medica.—Silver Medal: Mr. G. G. Marshall. Certificates: Messrs. H. W. Larcombe, J. E. Fawke, R. Charlesworth, L. Hopkins, M. I. Thomas, E. Lloyd, D. C. Daniel, J. P. Barker, H. Ashworth, R. J. Goodman, G. L. Martin, J. Jackson, E. W. S. Parkes, and G. Priestly. Pharmacy.—Silver Medals: Messrs. L. Hopkins, R. Charlesworth, H. W. Larcombe, and J. E. Fawke. Certificates: Messrs. M. I. Thomas, E. Lloyd, G. G. Marshall, J. P. Barker, H. Ashworth, R. J. Goodman, G. L. Martin, M. Tothill, W. Gardiner, J. Jackson, W. Gastman, G. Priestly, and E. W. S. Parkes. Dispensing.—Silver Medals: Messrs. J. P. Barker, R. J. Goodman, L. Hopkins, and M. Tothill. Twenty students obtained certificates in this subject.

Can Labels be Drunk?

In the Shoreditch County Court on Thursday, July 16, before Judge Cluer, Messrs. F. C. Goulding & Co., 26 Cowper Street, Finsbury, E.C., stationers, sued J. Le Woolf, patent-medicine vendor, Linden Gardens, Chiswick, to recover 3*l.* 7*s.* 4*d.*, balance alleged to be due for goods supplied. Plaintiffs' representative said the claim was for printing done in February and March, and defendant had paid 50*s.* only. His idea was that defendant only wanted to pay for the few labels he had had, and not for the whole lot that he had ordered. There was a price of 10*s.* a thousand for labels, but it would have been much more if less than 5,000 had been quoted for. The defendant said he had paid for all the goods he had had, having sent a cheque. His arrangement was that if he ordered above the quantity quoted for he was to have 15 per cent. off, and if less then it was to be 20 per cent. on. He had added that 20 per cent. and paid for all he had. He had been in business all his life, and naturally took precautions to safeguard himself in that way. Plaintiff: His business not being a success is the cause of all the trouble. Defendant: Don't be charitable to me; I don't ask for charity. If I have not made profits in my business it is nothing to do with anybody. Defendant went on to say that envelopes had been printed without "Messrs." on them; also labels which were intended for a preparation to be displayed in chemists' shops were printed as if they were drunk, the lines being all crooked and therefore ridiculous. (Laughter.) Judge Cluer (reading the label): If it does all it says, I should buy it whether the label was drunk or not. (Laughter.) Defendant added that the plaintiffs had said they were going to put the things right, but they never did. After hearing further evidence, Judge Cluer gave a verdict for the plaintiffs for the amount claimed, and two days' costs, as there had been an adjournment.

ASSOCIATION AFFAIRS.

Middlesex.—A meeting of the Middlesex Pharmaceutical Association was held at 17 Bloomsbury Square, London, W.C., on July 8, under the presidency of Mr. John Humphrey. The President announced that, owing to pressure of work, he was compelled to ask the Association to accept his resignation from the representation of pharmacists on the Middlesex Insurance Committee. The announcement was received with regret, and a vote of thanks was accorded to Mr. Humphrey for his labours on behalf of Middlesex during the past eighteen months. The Secretary (Mr. Hugo Wolff) was then elected to take the vacant position, and his nomination was notified to the Secretary of the Pharmaceutical Society. A sub-committee was appointed to make arrangements for the annual dinner, consisting of Messrs. Skinner, Strickland, and Bailey, with the President and Secretary. The Secretary was asked to write to all the Secretaries of the District Associations, in order to arrange the fixtures so that no clashing should take place during the coming winter session. Arrangements were made for a slight alteration in the appointment of representatives of the District Associations, so that their term of office should synchronise with that of the Pharmaceutical Committee.

PERSONALITIES.

Authenticated information for this section will be received by the Editor, and published, if not in the nature of advertisement.

MR. WILLIAM REGINALD FITZTHOMAS WYLEY, of Balliol College, Oxford, has recently taken Third Class Honours, School Natural Science, Chemical Division. Mr. Wyley is son of Colonel Wyley, High Sheriff of Warwickshire.

MR. J. A. W. WALKER, Ph.C., Northcote, Melbourne, Vic., is now spending a long holiday in this country and has been in London this week. Mr. Walker hopes to attend the meeting of the British Pharmaceutical Conference in Chester next week.

MR. A. BURNETT HECTOR, manager of the Sydney house of Messrs. Burroughs Wellcome & Co., has just completed twenty-one years' service with the firm, and to mark the occasion he has been presented with a solid silver-gilt rose-bowl bearing a suitable inscription.

MISS MAY GIFFORD, daughter of Mr. R. L. Gifford, J.P., Ph.C., Blackburn, who passed the Minor examination last week, is the third lady from the district to do so. All three are daughters of local chemists, and all are named "May"—Miss May Shorrock, daughter of Alderman Shorrock, Darwen; Miss May Grimshaw, daughter of Mr. W. H. Grimshaw, Blackburn; and now Miss May Gifford—a "Square" woman, by the way.

MR. LEONARD WILLOX, M.B., Ch.B. (Edin.), D.P.H. (Camb.), Ph.C., has graduated M.D. at Edinburgh University, having sent in a thesis and passed the necessary examination. Dr. Willox was awarded a gold medal for the excellence of his thesis, which was entitled "A radioscopic study of the shape, position and motility of the stomach in children, and the time taken by different meals to pass through the stomach."

MR. ALFRED L. BARTON, who won our "Students' Corner" analytical tournament during the past winter (*C. & D.*, April 25, p. 101), passed the Minor examination in London last week. Owing to the experience gained in working through the exercises of our "Students' Corner" Mr. Barton had no difficulty with the qualitative work given in the "Minor." It is interesting to note that Mr. Barton attended the practical portion of the examination the day previous to the expiration of his apprenticeship.

MR. J. B. FOGGITT, J.P., Ph.C., 367 Lord Street, Southport, has tendered his resignation as an alderman, after twenty-one years' useful work given to the town as a member of the Town Council. In 1892, as a result of a by-election, Mr. Foggitt entered the Council as a member for West Ward, and from then onwards he was successful whenever he had to appeal to the electors. In 1907, when the Conservative Party, of which he was deputy-leader, secured the "keys" of the Town Hall, he was elected to the aldermanic bench, and in October of last year he completed his twenty-one years' service in the Council. He has been at one time or other associated with practically all the committees, and was extremely popular. The good work which Mr. Foggitt did for the town was referred to in appreciative terms at the Council meeting on Monday night.

THE GROCERS' COMPANY of London obtained its first charter in 1423; by letters patent of 1447 it was specially charged with the sale of all kinds of spices, drugs, medicines, oils, ointments, plasters, confectionery, syrups, and waters, while its right of search and weighing gave it a wide monopoly which survived until the close of the seventeenth century.

Printed for the Proprietors by SPOTTISWOODE & CO., LTD., New-street Square, and Published by the Proprietors at 42 Cannon Street, in the City of London.—*July* 18, 1914. [62]

PRICES ISSUED WEEKLY.

Original Packages can generally be supplied at the Current Prices quoted in the Trade Report of this Paper on Terms as below.

Acetanilide, B.P., 1 cwt. @ 9½d. lb ; 7 lbs. @ 1/- lb. ; 1 lb. @ 1/1 lb. ; powder, 1d. lb.
*Acet. Ipecac. B.P., 7 lbs. @ 1/5 lb.
* „ Scillæ, P.B., 7 lbs. @ 3d. lb.
*Acetone, 6 lbs. @ 1/4 lb. ; 1 lb. @ 1/6 lb.
*Acid. Acet. Glacial., 99% Carboys, 160 lbs. @ 4½d. lb. ; 12 6-lb. bots. @ 7d. lb. ; 6 lbs. @ 8d. lb.
„ Acetylo-Salicyl., 1 cwt. @ 1/10½ lb. ; 56 lbs. @ 1/11 lb. ; 7 lbs. @ 2/2 lb. ; 1 lb. @ 2/5 lb.
„ Benz. P.B., 7 lbs. @ 1/8 lb. ; 1 lb. @ 2/- lb.
„ Boric Pulv., 3 cwt. @ 32/- cwt. ; 1 cwt. @ 32/6 cwt. ; levigd. 3/- cwt. or ½d. lb. extra.
„ Carbol. Xtls., 39/40 ; 56 lbs. @ 5d. lb. ; 10 lb. Tins @ 6/- each ; 36 1-lb. Bots. @ 9½d. lb. ; Single Bots. @ 1/- lb. ; Detached Cryst. 10 lb. Tins @ 8/- each; 1 lb. @ 1/2 lb. ; Crude Black, 45 gall. casks @ 1/- gall. ; 5 gall. drums @ 1/4 gall. ; 1 gall. tins @ 1/6 each.
„ Salicyl. pulv. 7 lbs. @ 1/1 lb. ; phys. pure, 1 lb. @ 2/11 lb.
„ Tart., cryst. or pulv., B.P., 1885, 1 cwt. @ 1/1 lb. ; 7 lbs. @ 1/2 lb. ; parv. ½d. lb. extra.
Ammon. Brom., P.B., 1 cwt. @ 2/1½ lb. ; 7 lbs. @ 2/3½ lb.
Ammon. Carb. lump, 3 cwt. @ 4d. lb. ; 28 lbs. @ 5½d. lb. ; 7 lbs. @ 5¾d. lb. ; powder, ¼d. lb. extra.

Bismuth, P.B., Carb., 28 lbs. @ 8/8 lb. ; 7 lbs. @ 8/10 lb. ; 3 lbs. @ 9/1 lb. ; 1 lb. @ @ 9/3 lb. ; subnit. 1/- lb. less.

*Liq. Ammonii Acetatis Conc. 1-7, 6 lbs. @ 8d. lb. ; 1 lb. @ 10½d. lb.
* „ Ammon. Aromat., 6 lbs. @ 9d. lb.
* „ Antim. Chlor. Pure, 8 lbs. @ 6½d. lb.
* „ Arsenicalis, B.P., 7 lbs. @ 4d. lb. ; 1 lb. @ 7d. lb.
* „ Arsenii Hydrochlor., P.B., 7 lbs. @ 4d. lb. ; 1 lb. @ 7d. lb.
* „ Bismuth, P.B., 6 lbs. @ 1/1 lb.
* „ Copaiba Buchu et Cubeb. 5 lbs. @ 2/8 lb. ; 1 lb. @ 3/- lb.
* „ Easton., p.s. 1-3, B.P., 1 lb. @ 3/- lb.
* „ Ferri Dialysatus, 6 lbs. @ 7d. lb.
* „ Ferri Iod. p.s., 1-7, 1 lb. @ 7/6 lb.
* „ Ferri Perchlor. Fort., P.B., 7 lbs. @ 4d. lb.
* „ Ferri Phosph. Co. p.s., 1-7, 7 lbs. @ 1/6 lb.
* „ Hamamelidis, B.P., 6 lbs. @ 1/1 lb.
* „ Hypophosph. Co. p.s., B.P.C., 1 lb. @ 3/4 lb.
* „ Iodi Fort, B.P., 5 lbs. @ 5/6 lb.
* „ Morphinæ Acet. or Hydrochlor., P.B., 6 lbs. @ 2/9 lb.
* „ Opii Sed., 5 lbs. @ 4/6 lb.
* „ Plumbi Subacet., P.B., 7 lbs. @ 3½d. lb.
* „ Pruni Virg. p.s. 1-7, 5 lbs. @ 2/2 lb.
* „ Rhœados pro Syr., 1 to 7, 5 lbs. @ 1/11 lb.
* „ Rhei p.s. 1-7, 6 lbs. @ 2/2 lb.
* „ Santali Co., 1 lb. @ 4/- lb.
* „ Sennæ Dulc. 6 lbs. @ 1/4 lb.
* „ Sennæ pro Syr. 1-7, 6 lbs. @ 2/- lb.
* „ Strychninæ Hyd. P.B., 6 lbs. @ 1/6 lb.
* „ Tolut. pro Syr. 1-7, 6 lbs. @ 1/8 lb.
* „ Trinitrini, B.P., 1 lb. @ 6/1 lb.

*Tinct. Cantbaridis, P.B., 5 lbs. @ 3/9 lb. ; bond, 6d. lb.
*Tinct. Capsici, B.P., 5 lbs. @ 3/3 lb. ; bond, 6d. lb. Aquos, 10d. lb.
*Tinct. Card. Comp., P.B., 5 lbs. @ 2/8 lb. ; bond, 7½d. lb. Aquos, 1/- lb.
*Tinct. Catechu, P.B., 5 lbs. @ 2/8 lb. ; bond, 7½d. lb. Aquos, 1/- lb.
*Tinct. Chlorof. c. Morph., B.P. 1885, 5 lbs. @ 2/- lb. ; bood, 1/6½ lb.
*Tinct. Ciochon. Comp., B.P., 5 lbs. @ 3/5 lb. ; bond, 1/0½ lb. Aquos, 1/4 lb.
*Tinct. Cinchon. Rub., P.B., 5 lbs. @ 3/- lb. ; bond, 10d. lb. Aquos, 1/2 lb.
*Tinct. Digitalis, B.P., 5 lbs. @ 2/8 lb. ; bond, 6½d. lb. Aquos, 1/- lb.
*Tinct. Gelsem. P.B., 5 lbs. @ 2/10 lb. ; bond, 6½d. lb. Aquos, 1/3 lb.
*Tinct. Gentianæ Comp., B.P., 5 lbs. @ 1/11½ lb. ; bond, 7½d. lb. Aquos, 1/- lb.
*Tinct. Hyoscyami, B.P., 5 lbs. @ 2/5 lb. bond, 7½d. lb. Aquos, 1/5 lb.
*Tinct. Iodi. B.P., 5 lbs. @ 4/4 lb. ; bond, 1/8 lb. ; decolor., 5 lbs. @ 4/8 lb. ; bond, 1/5½.
*Tinct. Lavandulæ Comp., B.P., 5 lbs. @ 3/10 lb. ; bond, 7¾d. lb. Aquos, 1/- lb.
*Tinct. Myrrhæ, B.P., 5 lbs. @ 3/9 lb. ; bond, 9¾d. lb.
*Tinct. Nucis Vom., B.P., 5 lbs. @ 2/10 lb. ; bond, 6d. lb. Aquos, 1/2 lb.
*Tinct. Senegæ, P.B., 5 lbs. @ 3/3 lb. ; bond ; 1/5½ lb. Aquos, 1/5½ lb.

NEW DETAILED LIST IS NOW READY.

*Dec. Aloes Co. Conc. 1-2, 6 lbs. @ 2/9 lb. ; Sinecroco, 6 lbs. @ 1/2 lb.
*„ Cinchonæ (Rubræ) Conc. 1-7, 6 lbs. @ 1/10
*„ Senegæ Conc., 6 lbs. @ 2/6 lb.

Ferri Ammon. Cit., P.B., 28 lbs. @ 2/6 lb. ; 7 lbs. @ 2/7 lb.

Glycerin. Opt. D.D., 1.260 P.B., 1 cwt. @ 100/- cwt. ; 56 lbs. @ 101/- cwt. ; 12 lbs. @ 1/1 lb.

Icbtbyol Ammon., 3 lbs. @ 10/9 lb. ; 1 lb. @ 11/- lb.
*Inf. Aurant. Conc., 1 to 7, 6 lbs. @ 1/3 lb.
* „ Aurant. Comp. Conc., 1 to 7, 6 lbs. @ 1/3 lb.
* „ Buchu Conc., 1 to 7, 6 lbs. @ 2/2 lb.
* „ Calumbæ Conc., 1 to 7, 6 lbs. @ 11d. lb.
* „ Caryoph. Conc., 1 to 7, 6 lbs. @ 1/- lb.
* „ Cascarilla Conc., 1 to 7, 6 lbs. @ 1/4 lb.
* „ Cinchonæ Acid, 1 to 7, 6 lbs. @ 1/7 lb.
* „ Gentianæ Co., 1 to 7, 6 lbs. @ 1/1 lb.
* „ Quassiæ Conc., 1 to 7, 6 lbs. @ 9d. lb.
* „ Rhei Conc., 1 to 7, 6 lbs. @ 1/6 lb.
* „ Rosæ Acid. Conc., 1 to 7, 6 lbs. @ 1/8 lb.
* „ Senegæ Conc., 1 to 7, 6 lbs. @ 2/4 lb.
* „ Valerian Conc., 1 to 7, 6 lbs. @ 1/3 lb.
Insect Powder, Opt., English Grd., closed flowers, 28 lbs. @ 1/10 lb. ; 7 lbs. @ 1/11 lb. ; English Ground, ½ closed flowers, 4d. lb. less ; Foreign Ground, 1 cwt. @ 80/- cwt. ; 28 lbs. @ 9d. lb.

*Lin. Aconiti Meth., 5 lbs. @ 1/2 lb. ; 1 lb. @ 1/5 lb.
* „ Bellad. Meth., 5 lbs. @ 1/5 lb. ; 1 lb. @ 1/8 lb. [1/1 lb.
„ Camph. P.B., 40 lbs. @ 1/- lb. ; 9 lbs. @
„ Sapo Metb., 9 lbs. @ 7d. lb.
„ Tereb. Acet., B.P., 9 lbs. @ 1/- lb.
Linseed c. Oil, Crushed, 3 cwt. @ 17/6 cwt. ; 1 cwt. @ 18/6 cwt.

Ol. Caryoph. Ang., B.P., 9 lbs. @ 4/3 lb. ; 4½ lbs. @ 4/5 lb.
Ol. Eucalypt., B.P., 1 cwt. @ 1/4½ lb. ; 28 lbs. @ 1/5½ lb. ; 9 lbs. @ 1/7 lb.
Ol. Juniperi Bacc., B.P., 4½ lbs. @ 3/8 lb. ; 1 lb. @ 4/1 lb. ; Ligne Exot., 1 cwt. @ 1/2 lb. ; 28 lbs. @ 1/4 lb. ; 9 lbs. @ 1/5 lb.
Ol. Menth. Pip. English, 5 lbs. @ 32/- lb. ; 1 lb. @ 33/6 lb.
Ol. Morrhuæ, 1913, finest non-freezing, 25 gall. tin-lined barrels @ 82/- per barrel ; 2-gall. tins @ 9/- each.
Ol. Olivæ, P.B., good yellow, guaranteed pure, 45 gall. barrels @ 4/10 gall. ; 2 gall. tins @ 5/9 gall.
Oxymel Scillæ, B.P. 5 cwt. @ 34/6 cwt. ; 1 cwt. @ 36/6 cwt. ; *7 lbs. @ 7d. lb.

Soda Salicyl. Pulv., 7 lbs. @ 1/5 lb. ; phys. pur., 28 lbs. @ 2/1 lb. ; 1 lb. @ 2/4 lb.
*Syr. Aurant. P.B., 7 lbs. @ 9½d. lb.
* „ Easton, B.P., 7 lbs. @ 1/0½ lb.
* „ Ferri Iodid. P.B., 7 lbs. @ 1/5 lb.
* „ Ferri Phosph. Co., 7 lbs. @ 5½d. lb.
* „ Hypophosph. Co. B.P.C., 7 lbs. @ 9½d. lb.
* „ Pruni Virg. B.P., 8 lbs. @ 7½d. lb.
* „ Rhamni, 7 lbs. @ 10½d. lb.
* „ Rhei, P.B., 7 lbs. @ 8d. lb.
* „ Scillæ, P.B., 7 lbs. @ 5d. lb.
* „ Sennæ, P.B., 7 lbs. @ 8½d. lb.
* „ Tolut, P.B., 7 lbs. @ 8½d. lb.

Tinct. Aurantii Recens., B.P., 5 lbs. @ 3/6 lb. ; bond, 8½d. Aquos, 10d. lb.
*Tinct. Belladon., B.P., 5 lbs. @ 2/11 lb. ; bond, 6½d. Aquos, 1/- lb.
*Tinct. Beozoini Comp., P.B., 5 lbs. @ 3/6 lb. ; bond, 9d.
*Tinct. Camph. Comp. P.B., 5 lbs. @ 2/5 lb. ; bond, 6¾d. Aquos, 1/1 lb.

*Tinct. Strophanth., P.B., 5 lbs. @ 3/5 lb. ; bond, 8½d. lb.
*Tinct. Valerianæ, 5 lbs. @ 2/8 lb. ; bond, 6d. lb. Aquos, 1/- lb.
*Tinct. Valerianæ Ammon., P.B., 5 lbs. @ 3/1 lb. ; bond, 8½d. lb. Aquos, 1/2 lb.
*Tinct. Zingib. P.B. 5 lbs. @ 4/- lb. ; bond, 6½d. lb.
*Tinct. Zingib. Fortior., 5 lbs. @ 4/3 lb. ; bond, 10½d. lb.
Treacle (Black), casks about 5½ gross @ 42/- per cask ; 24 lbs. @ 2d. lb.
Turpentine (Best American), 1 gal. tins @ 3/10 each ; Venice, Genuine, 40 lbs. @ 1/4½ lb. ; 9 lbs. @ 1/7 lb.

Ung. Acid. Boric, P.B., 28 lbs. @ 6d. lb ; Flav. 28 lbs. @ 4½d. lb.
„ Acid Carbol., B.P., 28 lbs. @ 8d. lb. ; 7 lbs. @ 9d. lb. ; 1 lb. @ 11d. lb.
„ Gallæ, P.B., 7 lbs. @ 1/- lb. ; 1 lb. @ 1/2 lb. ; c. Opio, 7 lbs. @ 2/10 lb.
„ Hydrargyri, B.P., 28 lbs. @ 1/9 lb. ; 7 lbs. @ 1/11 lb.
„ Hydrarg. Ammon., B.P., 28 lbs. @ 11d. lb. ; 7 lbs. @ 1/2 lb.
„ Hyd. Nit. Dil., 7 lbs. @ 10d. lb.
„ Paraff. Alb., P.B., 28 lbs. @ 7d. lb. ; 7 lbs. @ 8d. lb. ; 1 lb. @ 10d. lb. ; Flav. 28 lbs. @ 5d. lb. ; 7 lbs. @ 6½d. lb.
„ Resinæ, P.B., 28 lbs. @ 11d. lb. ; 7 lbs. @ 1/- lb.
„ Sulpburis, B.P., 28 lbs. @ 8d. lb. ; 7 lbs. @ 9d. lb.
„ Zinci Oxid. Beoz., B.P., 28 lbs. @ 8½d. lb.

*Minimum quantity at these prices ; Home Trade, 3 Winchester Quarts assorted ; Export, 12 Winchester Quarts assorted.

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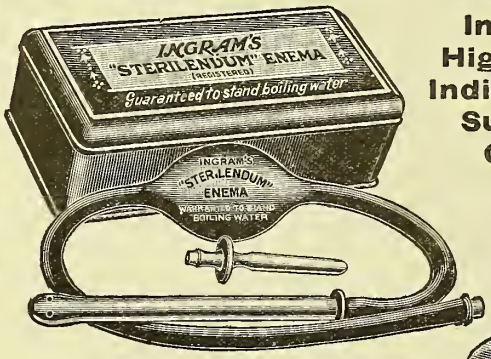

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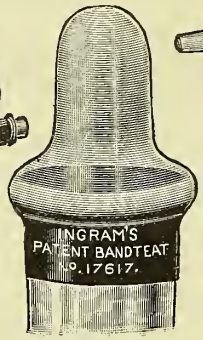

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X41/SP „ „ (shorter), 3 oz., **2/3** doz.
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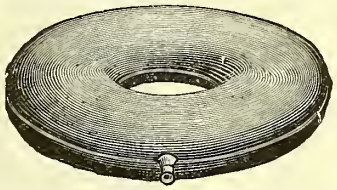
Guaranteed  for 2 years.

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	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
BEST QUALITY ... each	4 6	5 0	5 6	6 0	6 6	7 6	8 6	10 0
SPECIAL " ... "	4 2	4 6	4 10	5 4	5 10	6 4	7 2	8 6

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See pages 5 to 9.

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* " " " " "	1/-	7/-
* " " " " bottles in cartons	1/6	10/6

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A valuable emollient medicated skin soap, especially suitable for use in Eczema — 1/- — 8/-

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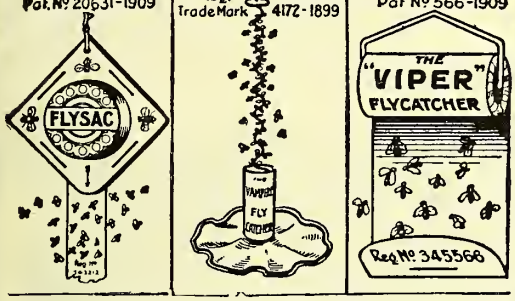

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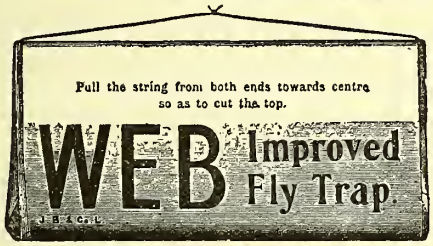

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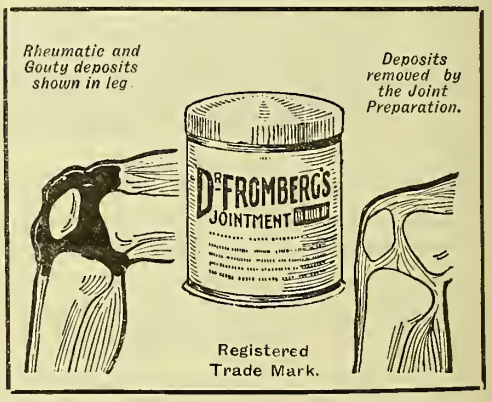

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Printed for the Proprietors by SPOTTISWOODE & CO., LTD., New-street Square; and Published by the Proprietors at 42 Cannon Street, in the City of London.—*July* 18, 1914.